

# RCA REFERENCE BOOK 1956

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Marca Registrada

*A compendium of  
valuable information on  
RCA Receiving Tubes,  
Picture Tubes,  
Cathode-Ray and Power  
Tubes, Batteries, Service  
Parts, Test and  
Measuring Equipment,  
Electronic Components,  
and Semiconductor  
Devices.*



*A diary for 1956.*

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# RCA RECEIVING TUBE CHART

Miniature, Metal, GT, and other Receiving Types

Type	Name	Tube Dimensions and Socket Connections	Cathode Type and Rating	Use	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Screen Control	Plate Current MA	AC Plate Resistance Ohms	Trans-conductance umhos	Amplification Factor	Load Impedance Ohms	Power Output Watts
00-A	Detector Triode	D12 4D	D.C. F 5.0 0.25	Grid-Leak Detector	45	Grid Return to (-) Filament	—	—	1.5	30000	666	20	—	—
01-A	Detector & Amplifier	D12 4D	D.C. F 5.0 0.25	Class A Amplifier	90	— 4.5	—	—	2.5	11000	725	8.0	—	—
0Y4	Half-Wave Gas Rectifier	B2 4BU	Cold	Rectifier	135	— 9.0	—	—	3.0	10000	800	8.0	—	—
0Z4	Full-Wave Gas Rectifier	B2 4R	Cold	Rectifier	—	—	—	—	—	—	—	—	—	—
DZ4-G	Full-Wave Gas Rectifier	B1A G-4R	Cold	Rectifier	—	—	—	—	—	—	—	—	—	—
1A3	IIF Diode	D0 5AP3	H 1.4 0.15	Detector Rectifier	—	—	—	—	—	—	—	—	—	—
1A4-P	Regulated-Current Pentode	D9 4M	D.C. F 2.6 0.05	Amplifier	85	— 4.5	85	0.7	3.5	80000	400	—	25000	0.100
1A5-GT	Power Amplifier Pentode	D20 6-6A	D.C. F 1.4 0.05	Class A Amplifier	90	— 4.5	90	0.6	4.0	30000	850	—	25000	0.115
1A6	Protogal Converter	D3 9L	D.C. F 2.0 0.05	Converter	135	— 3.0	67.5	2.5	1.2	40000	—	—	—	—
1A7-GT	Pentagrid Converter	C3 GT-72A	D.C. F 1.4 0.05	Converter	90	0	45	0.7	0.6	60000	—	—	—	—
1AC5	Power Pentode	A 6CP	F 1.25 0.04	Class A Amplifier	45	— 3	45	0.1	0.5	20000	450	—	50000	0.005
1AD5	Sharp-Cutoff Pentode	A 6DP1	F 1.25 0.04	Class A Amplifier	67.5	— 4.5	67.5	0.4	2.0	15000	750	—	25000	0.050
1B3-GT	Half-Wave Rectifier	D4 3C	F 1.25 0.2	Half-Wave Rectifier	67.5	0	67.5	0.9	1.85	70000	580	—	—	—

1B4-P	IIF Amplifier Pentode	D9 4M	D.C. F 2.0 0.06	Amplifier	45	— 4.5	45	0.3	1.6	40000	650	—	20000	0.035
1B5/25S	Duplex-Diode Triode	D6 6M	D.C. F 2.0 0.06	Triode Unit as Amplifier	90	— 9.0	90	1.0	5.0	20000	925	—	12000	0.200
1B7-GT	Pentagrid Converter	C3 GT-72A	D.C. F 1.4 0.10	Converter	90	0	45	1.3	1.5	35000	—	—	—	—
1C5-GT	Power Amplifier Pentode	D20 6-6A	D.C. F 1.4 0.10	Class A Amplifier	83	— 7.0	83	1.6	7.0	11000	1500	—	9000	0.20
1C6	Pentagrid Converter	D9 4L	D.C. F 2.0 0.12	Converter	99	— 7.5	99	1.6	7.5	11500	1550	—	8000	0.24
1C7-G	Pentagrid Converter	D8 6-7Z	D.C. F 2.0 0.12	Converter	135	— 3.0	67.5	2.5	1.3	60000	—	—	—	—
1D5-GP	Remotely-Cutoff Pentode	D8 6-8Y	D.C. F 2.0 0.06	Class A Amplifier	90	— 3.0	67.5	0.9	2.2	60000	720	—	—	—
1D5-GT	Remotely-Cutoff Pentode	D8 6-8N	D.C. F 2.0 0.06	Class A Amplifier	180	— 3.0	67.5	0.8	2.3	1.63	750	—	—	—
1D7-G	Pentagrid Converter	D8 6-7Z	D.C. F 2.0 0.06	Converter	180	— 3.0	67.5	0.7	2.2	60000	650	—	—	—
1D8-GT	Duplex-Triode Power Amplifier Pentode	D20 6-6A	D.C. F 1.4 0.10	Triode Unit as Amplifier	45	— 4.5	45	0.3	1.6	40000	650	—	20000	0.035
1E5-GP	RF Amplifier Pentode	D8 6-8Y	D.C. F 2.0 0.06	Class A Amplifier	90	— 3.0	67.5	0.7	1.6	1.03	650	—	—	—
1E7-GT	Triode-Pentode Power Amplifier	C29 6-8C	D.C. F 2.0 0.21	Class A Amplifier	135	— 7.5	135	—	—	—	—	—	—	—
1E8	Pentagrid Converter	A 6DN	F 1.25 0.04	Converter	30	0	30	0.8	0.3	30000	—	—	—	—
1E4	Power Amplifier Pentode	D12 6K	D.C. F 2.0 0.12	Rectifier	45	— 4.5	45	0.3	1.6	40000	650	—	20000	0.035
1F5-G	Power Amplifier Pentode	D10 6-6X	D.C. F 2.0 0.11	Class A Amplifier	90	— 3.0	135	2.4	8.0	20000	1200	—	20000	0.11
1F6	Duplex-Diode Triode	D9 9W	D.C. F 2.0 0.06	Triode Unit as Amplifier	135	— 4.5	135	1.1	5.0	10000	925	—	16000	0.31
1F7-G	Duplex-Diode Triode	D3 6-7AF	D.C. F 2.0 0.06	Triode Unit as Amplifier	160	— 1.5	67.5	0.7	2.2	1.03	650	—	—	—
1G4-GT	Aluminum-Mu Triode	D20 6-8S	D.C. F 2.0 0.05	Triode Unit as Amplifier	135	— 2.0	—	—	—	—	—	—	—	—
1G5-G	Power Amplifier Pentode	D10 6-8X	D.C. F 2.0 0.12	Class A Amplifier	90	— 6.0	90	2.5	8.5	13000	1500	—	8500	0.25

Discontinued types are shown in light face.



Type	Name	Tube Dimensions and Socket Connections	Cathode Type and Rating		Use	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Screen Current mA	Plate Current mA	AC Plate Resistance Ohms	Trans-conductance (grid-plate) mhos	Amplification Factor	Load Impedance Ohms	Power Output Watts
			D.C. Volts	Max. Amp.											
1G6-GT	Twin-Triode Amplifier	9CB	D.C. F	1.4	0.10	Class B Amplifier	90	0	—	—	—	—	—	12000	0.350
1H4-O	Detector & Amplifier	D3	D.C. F	2.0	0.06	Class A Amplifier	90	-4.5	—	2.5	11000	850	9.3	—	—
1H5-GT	Diode-Hi Triode	D3	D.C. F	2.0	0.06	Class A Amplifier	135	-9.0	—	3.0	10300	900	9.3	—	—
1H6-G	Diode-Hi Triode	D3	D.C. F	2.0	0.06	Class A Amplifier	180	-13.5	—	3.1	10300	900	9.3	—	—
1J5-G	Power Pentode	D10	D.C. F	2.0	0.12	Class B Amplifier	157.5	-15.0	—	0.15	240000	275	65	—	2.1
1J6-G	Twin-Triode Amplifier	D8	D.C. F	2.0	0.24	Class B Amplifier	90	0	—	0.8	35000	575	20	—	—
1J6-GT	Diode-Hi Triode	D3	D.C. F	2.0	0.06	Class A Amplifier	135	-3.0	—	7.0	105000	950	—	13500	0.45
1L4	RF Amplifier Pentode	D3	D.C. F	1.4	0.05	Class A Amplifier	135	0	—	—	—	—	—	10000	2.1
1L6	Power Converter	D8	D.C. F	1.4	0.05	Converter	90	0	45	0.6	650000	—	—	—	1.9
1LA4	Power Amplifier Pentode	D5	D.C. F	1.4	0.05	Amplifier	90	0	45	0.6	750000	—	—	—	—
1LA6	Power Converter	D5	D.C. F	1.4	0.05	Converter	90	0	45	0.6	750000	—	—	—	—
1LB4	Power Amplifier Pentode	D5	D.C. F	1.4	0.05	Class A Amplifier	45	0	45	0.35	1.10	700000	250	—	—
1L05	Sharp-Cutoff Pentode	D5	D.C. F	1.4	0.05	Class A Amplifier	90	0	45	0.30	1.15	1.40	275	—	—
1L06	Power Converter	D5	D.C. F	1.4	0.05	Converter	45	0	35	0.70	0.70	300000	—	—	—
1LD5	Diode-Pentode	D5	D.C. F	1.4	0.05	Pentode Unit as Class A Amplifier	90	0	35	0.70	0.70	300000	—	—	—
1LE3	Medium-Hi Triode	D3	D.C. F	1.4	0.05	Class A Amplifier	90	0	45	0.4	1.7	1.04	800	—	—
1LG5	Remote-Cutoff Pentode	D5	D.C. F	1.4	0.05	Class A Amplifier	90	-1.5	90	0.9	3.7	500000	1.150	—	—

For other characteristics, refer to Type 1A5-GT.

For other characteristics, refer to Pentode Unit of Type 1D8-GT.

Power Output is for one tube at rated plate-to-plate load.

Grid Bias is for one tube at rated plate-to-plate load.

Screen Supply is for one tube at rated plate-to-plate load.

Plate Current is for one tube at rated plate-to-plate load.

AC Plate Resistance is for one tube at rated plate-to-plate load.

Trans-conductance is for one tube at rated plate-to-plate load.

Amplification Factor is for one tube at rated plate-to-plate load.

Load Impedance is for one tube at rated plate-to-plate load.

Power Output is for one tube at rated plate-to-plate load.

Grid Bias is for one tube at rated plate-to-plate load.

Screen Supply is for one tube at rated plate-to-plate load.

Plate Current is for one tube at rated plate-to-plate load.

AC Plate Resistance is for one tube at rated plate-to-plate load.

Trans-conductance is for one tube at rated plate-to-plate load.

Amplification Factor is for one tube at rated plate-to-plate load.

Load Impedance is for one tube at rated plate-to-plate load.

For other characteristics, refer to Type 1H5-GT.

Type	Name	Tube Dimensions and Socket Connections	Cathode Type and Rating		Use	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Screen Current mA	Plate Current mA	AC Plate Resistance Ohms	Trans-conductance (grid-plate) mhos	Amplification Factor	Load Impedance Ohms	Power Output Watts
			D.C. Volts	Max. Amp.											
1LH4	High-Mu Triode	BE	D.C. F	1.4	0.05	Class A Amplifier	90	0	90	0.35	1.6	1.1	800	—	—
1LN5	Sharp-Cutoff Pentode	D5	D.C. F	1.4	0.05	Class A Amplifier	90	0	50	0.3	1.2	1.5	750	—	—
1N5-GT	Sharp-Cutoff Pentode	D3	D.C. F	1.4	0.05	Class A Amplifier	90	0	50	0.3	1.2	1.5	750	—	—
1N6-G	Diode-Pentode	D1	D.C. F	1.4	0.05	Class A Amplifier	90	-4.5	90	0.7	3.4	300000	800	—	0.1
1P5-GT	Remote-Cutoff Pentode	D3	D.C. F	1.4	0.05	Class A Amplifier	90	0	90	0.7	2.3	800000	750	—	—
1Q5-GT	Power Tube	D5	D.C. F	1.4	0.1	Class A Amplifier	90	-4.5	90	1.3	9.5	90000	2200	—	0.27
1R5	Power Converter	D5	D.C. F	1.4	0.05	Converter	45	0	45	1.9	0.7	400000	—	—	—
1S4	Power Amplifier Pentode	D3	D.C. F	1.4	0.1	Class A Amplifier	90	0	67.5	3.3	1.6	600000	—	—	—
1S5	Diode-Pentode	D3	D.C. F	1.4	0.05	Pentode Unit as AF Amplifier	45	-4.5	45	0.8	3.8	100000	1350	—	0.065
1T4	Power Tube	D5	D.C. F	1.4	0.05	Class A Amplifier	90	0	67.5	1.4	7.1	100000	1575	—	0.27
1T5-GT	Power Tube	D5	D.C. F	1.4	0.05	Class A Amplifier	90	0	67.5	1.4	3.5	500000	700	—	—
1T6	Power Tube	D5	D.C. F	1.4	0.05	Class A Amplifier	90	0	67.5	1.4	3.5	500000	700	—	—
1U4	Sharp-Cutoff Pentode	D3	D.C. F	1.4	0.05	Class A Amplifier	90	0	90	0.8	6.5	250000	1150	—	0.17
1U5	Diode-Pentode	D3	D.C. F	1.4	0.05	Pentode Unit as Class A Amplifier	30	0	30	0.10	0.33	500000	330	—	—
1V	Half-Wave Rectifier	D3	D.C. F	1.4	0.05	Class A Amplifier	90	0	67.5	0.4	1.6	400000	500	—	—
1V2	Half-Wave Rectifier	D3	D.C. F	1.4	0.05	Class A Amplifier	90	0	67.5	0.4	1.6	400000	500	—	—
1X2-A	Half-Wave Rectifier	D3	D.C. F	1.4	0.05	Class A Amplifier	90	0	67.5	0.4	1.6	400000	500	—	—
1X2-B	Half-Wave Rectifier	D3	D.C. F	1.4	0.05	Class A Amplifier	90	0	67.5	0.4	1.6	400000	500	—	—
2A3	Power Amplifier Triode	D3	D.C. F	2.5	2.5	Class A Amplifier	250	-45.0	—	—	—	—	—	—	—
2A4-G	Glow-Discharge Triode	D3	D.C. F	2.5	2.5	Class A Amplifier	300	-60.0	—	—	—	—	—	—	—

Discontinued types are shown in light faces.



Type	Name	Dimensions and Socket Connections	Tube S.E.	Cathode Type and Rating	Use	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Transconductance (Grid Plate) umhos	Amplification Factor	Load for Stand-By Output Ohms	Power Output Watts
2A5	Power Amplifier Pentode	D12	8B	H	2-5	1-75	—	—	—	—	—	—	—	—	—
2A6	Duplex-Diode High-Mu Triode	D8	6G	H	2-5	0.8	—	—	—	—	—	—	—	—	—
2A7	Pentagonal Converter	D9	7C	H	2-5	0.8	—	—	—	—	—	—	—	—	—
2AF4-A	VHF Oscillator Triode	B8	70K	H	2-35	0.6	—	—	—	—	—	—	—	—	—
2B7	Duplex-Diode Pentode	D8	7D	H	2-5	0.8	—	—	—	—	—	—	—	—	—
2D5	Electron-Ray Tube	D5	6H	H	2-5	0.8	—	—	—	—	—	—	—	—	—
3A2	Half-Wave Rectifier	B1	80T	H	3-15	0-21	—	—	—	—	—	—	—	—	—
3A3	Half-Wave Rectifier	B2	82Z	H	3-15	0-22	—	—	—	—	—	—	—	—	—
3AB-GT	Diode-Triode RF Amplifier Pentode	C6	84S	D.C. F	1-1 2-8	0.1 0.05	—	—	—	—	—	—	—	—	—
3AL5	Triode-Diode	A1	68T	H	3-15	0.6	—	—	—	—	—	—	—	—	—
3AU6	Sharp-Cutoff Pentode	D0	70K4	H	3-15	0.6	—	—	—	—	—	—	—	—	—
3AV6	Triode-Diode High-Mu Triode	D0	78T	H	3-15	0.6	—	—	—	—	—	—	—	—	—
3E2	Half-Wave Rectifier	E1a	85	H	3-15	0-22	—	—	—	—	—	—	—	—	—
3BC5	Sharp-Cutoff Pentode	B0	70D	H	3-15	0.6	—	—	—	—	—	—	—	—	—
3BY6	Pentagonal Amplifier	B0	70C4	H	3-15	0.6	—	—	—	—	—	—	—	—	—

3BZ6	Subminiature-Sharp-Cutoff Pentode	B0	76M	H	3-15	0.3	—	—	—	—	—	—	—	—	—
3CB6	Sharp-Cutoff Pentode	B0	76M	H	3-15	0.6	—	—	—	—	—	—	—	—	—
3CF6	Sharp-Cutoff Pentode	B0	70M	H	3-15	0.6	—	—	—	—	—	—	—	—	—
3LF4	Power Tube	B5	68B	D.C. F	1-4 2-8	0.1 0.05	—	—	—	—	—	—	—	—	—
3Q4	Power Amplifier Pentode	B8	70A	D.C. F	1-4 2-8	0.1 0.05	—	—	—	—	—	—	—	—	—
3Q5-GT	Power Tube	C6	84P	D.C. F	1-4 2-8	0.1 0.05	—	—	—	—	—	—	—	—	—
354	Power Amplifier	B3	70A	D.C. F	1-4 2-8	0.1 0.05	—	—	—	—	—	—	—	—	—
3V4	Power Amplifier Triode	B0	68X	D.C. F	1-4 2-8	0.1 0.05	—	—	—	—	—	—	—	—	—
4BQ7-A	Medium-Mu Triode	B0A	68A	H	4-2	0.6	—	—	—	—	—	—	—	—	—
4BZ7	Medium-Mu Triode	B0B	68A	H	4-2	0.6	—	—	—	—	—	—	—	—	—
5AM8	Diode-Sharp-Cutoff Pentode	B0A	27	H	4-7	0.6	—	—	—	—	—	—	—	—	—
5AN8	Medium-Mu Triode Sharp-Cutoff Pentode	B0A	30A	H	4-7	0.6	—	—	—	—	—	—	—	—	—
5AQ5	Beam Power Tube	B1	78Z	H	4-7	0.6	—	—	—	—	—	—	—	—	—
5AS4	Full-Wave Rectifier	E1a	6-8T	H	4-7	3.0	—	—	—	—	—	—	—	—	—
5AS8	Diode-Sharp-Cutoff Pentode	B0A	68B	H	4-7	0.6	—	—	—	—	—	—	—	—	—
5AT8	Triode-Pentode Converter	B0A	9AX	H	4-7	0-45	—	—	—	—	—	—	—	—	—

Discontinued types are shown in light face.

Type	Name	Tube Dimensions and Socket Connections	Cathode Type and Rating	Use	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Trans-conductance (Grid-plate) umhos	Amplification Factor	Load for Slide Output Ohms	Power Output Watts	
															Diagonal
5A24	Full-Wave Rectifier	9Ca	ET	F	5.0	2.0	Each Unit as Class A Amplifier Push-Pull	100	Cath. Res., 220 ohms, both units	—	8.5	7100	5300	38	—
516	Medium-Mu Twin-Triode	9B	7BF	H	4.7	0.6	Class C Amplifier	150	Cath. Res., 220 ohms, both units	—	30	Grid Current, 16 Ma. Driving Power, 0.35 Watt	—	—	3.5
514	Full-Wave Rectifier	9T	ET	F	5.0	2.0	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 450 Max. Peak Inverse Volts, 1550 Max. AC Volts per Plate (RMS), 550 Max. Peak Inverse Volts, 1550 With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 450 Max. Peak Inverse Volts, 1550 Max. AC Volts per Plate (RMS), 550 Max. Peak Inverse Volts, 1550 With Inductive-Input Filter	Max. DC Output Ma., 225 Min. Value of Input Choke, 5 henries	Max. DC Output Ma., 225 Min. Value of Input Choke, 5 henries	Min. Total Effect. Supply Imped. per Plate, 150 ohms	Min. Total Effect. Supply Imped. per Plate, 150 ohms	3.5	
504-G	Full-Wave Rectifier	92	6-5T1	F	5.0	3.0	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 450 Max. Peak Inverse Volts, 1550 Max. AC Volts per Plate (RMS), 550 Max. Peak Inverse Volts, 1550 With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 450 Max. Peak Inverse Volts, 1550 Max. AC Volts per Plate (RMS), 550 Max. Peak Inverse Volts, 1550 With Inductive-Input Filter	Max. DC Output Ma., 225 Min. Value of Input Choke, 5 henries	Max. DC Output Ma., 225 Min. Value of Input Choke, 5 henries	Min. Total Effect. Supply Imped. per Plate, 150 ohms	Min. Total Effect. Supply Imped. per Plate, 150 ohms	3.5	
504-GB	Full-Wave Rectifier	937A	6-5T1	H	5.0	3.0	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 550 Max. Peak Inverse Volts, 1550 Max. AC Volts per Plate (RMS), 550 Max. Peak Inverse Volts, 1550 With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 550 Max. Peak Inverse Volts, 1550 Max. AC Volts per Plate (RMS), 550 Max. Peak Inverse Volts, 1550 With Inductive-Input Filter	Max. DC Output Ma., 300 Min. Value of Input Choke, 10 henries	Max. DC Output Ma., 300 Min. Value of Input Choke, 10 henries	Min. Total Effect. Supply Imped. per Plate, 97 ohms	Min. Total Effect. Supply Imped. per Plate, 97 ohms	3.5	
508	Triode—Remote-Cutoff Pentode	9Ba	9AE	H	4.7	0.6	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier	150	Cath. Bias	—	18	5000	8500	40	Cath. Res., 56 ohms
5V4-G	Full-Wave Rectifier	9D9	94L1	H	5.0	2.0	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 375 Max. Peak Inverse Volts, 1400 Max. AC Volts per Plate (RMS), 500 Max. Peak Inverse Volts, 1400 With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 375 Max. Peak Inverse Volts, 1400 Max. AC Volts per Plate (RMS), 500 Max. Peak Inverse Volts, 1400 With Inductive-Input Filter	Max. DC Output Ma., 175 Min. Value of Input Choke, 4 henries	Max. DC Output Ma., 175 Min. Value of Input Choke, 4 henries	Min. Total Effect. Supply Imped. per Plate, 100 ohms	Min. Total Effect. Supply Imped. per Plate, 100 ohms	3.5	
5W4	Full-Wave Rectifier	92	ET	F	5.0	1.5	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 450 Max. Peak Inverse Volts, 1400 Max. AC Volts per Plate (RMS), 550 Max. Peak Inverse Volts, 1400 With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 450 Max. Peak Inverse Volts, 1400 Max. AC Volts per Plate (RMS), 550 Max. Peak Inverse Volts, 1400 With Inductive-Input Filter	Max. DC Output Ma., 300 Min. Value of Input Choke, 6 henries	Max. DC Output Ma., 300 Min. Value of Input Choke, 6 henries	Min. Total Effect. Supply Imped. per Plate, 97 ohms	Min. Total Effect. Supply Imped. per Plate, 97 ohms	3.5	
5X4-G	Full-Wave Rectifier	92	945Q	F	5.0	3.0	Triode Unit as 250-Mc. Oscillator	150	Cath. Res., 2700 ohms Grid Current, 3.6 Ma. Grid-No. 2 Volts, 150 Max. Grid-No. 1 Supply Volts, -3.5 Plate Current, 0.2 Ma.	—	10	40000	3200	—	Cath. Res., 68 ohms
5X8	Triode—Pentode Converter	9Ca	94K	H	4.7	0.6	Pentode Unit as Mixer	150	Grid Resistor, 2700 ohms Grid Current, 3.6 Ma. Grid-No. 2 Volts, 150 Max. Grid-No. 1 Supply Volts, -3.5 Plate Current, 0.2 Ma.	—	10	40000	3200	—	Cath. Res., 68 ohms

For other ratings, refer to Type 5Y3-GT.														
For other ratings, refer to Type 5Y4-G.														
For other ratings, refer to Type 5Z3.														
For other ratings, refer to Type 5Z4.														
For other ratings, refer to Type 6A3.														
For other ratings, refer to Type 6A4/LA.														
For other ratings, refer to Type 6A6.														
For other ratings, refer to Type 6A7.														
For other ratings, refer to Type 6A7S.														
For other ratings, refer to Type 6A8.														
For other ratings, refer to Type 6A8-GT.														
For other ratings, refer to Type 6A84.														
For other ratings, refer to Type 6A85/6N5.														
For other ratings, refer to Type 6A87.														
For other ratings, refer to Type 6AC5-GT.														
For other ratings, refer to Type 6AC7.														
For other ratings, refer to Type 6AD6-G.														

Discontinued types are shown in light face.







RCA Type	Name	Dimensions and Socket Connections	Cathode Type and Rating	Use	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Screen Current ML	Plate Current ML	AC Plate Resistance Ohms	Trans-conductance (Grid-plate) mhos	Amplification Factor	Load for Static Power Output Ohms	Power Output Watts
6AT8	Triode-Pentode Converter	B9a	H 6.3	Triode Unit as 250-Mc. Oscillator Pentode Unit as Mixer	150	Grid Resistor: 2700 ohms Grid Current: 5.6 Ma. Mixer Grid-No. 1 Supply Volts, -3.5 Plate Current: 6.2 Ma. Max. Peak Inverse Plate Volts, 4500 (Absolute) Max. Peak Plate Ma., 1050 Max. Peak Inverse Plate Volts, 4300 (Absolute) Max. Peak Plate Ma., 1150 Max. DC Cathode Ma., 110 Max. DC Plate Volts, 550	—	—	—	—	—	—	Plate Current, 13 ma. Power Output (Approx.), 0.5 watt Osc. Volts at Mixer Grid-No. 1 (3RM5), 2.2 Mixer Grid-No. 1 Resistor, 12000 ohms Conversion Transconductance, 2160 amhos Max. Average Plate Ma., 175 Max. Plate Dissipation, 6.0 Watts Max. Average Plate Ma., 190 Max. Plate Dissipation, 6.0 Watts	0.5 watt
6AU4-GT	Half-Wave Rectifier	C10b	H 6.3	Television Dumpper Service	Max. DC Plate Volts, 550 Max. Peak Plate Ma., 1050	—	—	—	—	—	—	—	—	—
6AU5-GT	Half-Wave Rectifier	C10b	H 6.3	Television Dumpper Service	Max. DC Plate Volts, 550 Max. Peak Plate Ma., 1050	—	—	—	—	—	—	—	—	—
6AU6	Beam Power Tube	C2b	H 6.3	Class A Amplifier	Max. DC Plate Volts, 550 Max. Peak Plate Ma., 1050	—	—	—	—	—	—	—	—	—
6AU7	Sharp-Cutoff Pentode	B8a	H 6.3	Class A Amplifier	Max. DC Plate Volts, 550 Max. Peak Plate Ma., 1050	—	—	—	—	—	—	—	—	—
6AV5-GT	High-Mu Triode-Pentode	C2b	H 6.3	Class A Amplifier	Max. DC Plate Volts, 550 Max. Peak Plate Ma., 1050	—	—	—	—	—	—	—	—	—
6AW8	High-Mu Triode-Pentode	B8a	H 6.3	Class A Amplifier	Max. DC Plate Volts, 550 Max. Peak Plate Ma., 1050	—	—	—	—	—	—	—	—	—
6AV6	High-Mu Triode-Pentode	B8a	H 6.3	Class A Amplifier	Max. DC Plate Volts, 550 Max. Peak Plate Ma., 1050	—	—	—	—	—	—	—	—	—
6AX4-GT	Half-Wave Rectifier	C2b	H 6.3	Class A Amplifier	Max. DC Plate Volts, 550 Max. Peak Plate Ma., 1050	—	—	—	—	—	—	—	—	—
6AX5-GT	Half-Wave Rectifier	C2b	H 6.3	Class A Amplifier	Max. DC Plate Volts, 550 Max. Peak Plate Ma., 1050	—	—	—	—	—	—	—	—	—
6AZ8	Medium-Mu Triode-Pentode	B8a	H 6.3	Class A Amplifier	Max. DC Plate Volts, 550 Max. Peak Plate Ma., 1050	—	—	—	—	—	—	—	—	—

For other characteristics, refer to Type 684-G.

684-G	Power Amplifier Triode	E2	6.3	F	250	-45.0	—	—	60.0	800	5250	4.2	2500	3.20
685	Direct-Coupled Power Amplifier	D12	6.3	F	325	Cath. Bias, 550 ohms -68 volts, fixed bias	—	—	80.0	—	—	—	5000	10.07
686-G	High-Mu Triode	D8	6.3	H	325	Cath. Bias, 550 ohms -68 volts, fixed bias	—	—	80.0	—	—	—	3000	15.07
687	High-Mu Triode	D8	6.3	H	325	Cath. Bias, 550 ohms -68 volts, fixed bias	—	—	80.0	—	—	—	3000	15.07
688	High-Mu Triode	D8	6.3	H	325	Cath. Bias, 550 ohms -68 volts, fixed bias	—	—	80.0	—	—	—	3000	15.07
689-G	High-Mu Triode	D8	6.3	H	325	Cath. Bias, 550 ohms -68 volts, fixed bias	—	—	80.0	—	—	—	3000	15.07
68A6	High-Mu Triode	D8	6.3	H	325	Cath. Bias, 550 ohms -68 volts, fixed bias	—	—	80.0	—	—	—	3000	15.07
68A7	High-Mu Triode	D8	6.3	H	325	Cath. Bias, 550 ohms -68 volts, fixed bias	—	—	80.0	—	—	—	3000	15.07
68C4	High-Mu Triode	D8	6.3	H	325	Cath. Bias, 550 ohms -68 volts, fixed bias	—	—	80.0	—	—	—	3000	15.07
68C5	High-Mu Triode	D8	6.3	H	325	Cath. Bias, 550 ohms -68 volts, fixed bias	—	—	80.0	—	—	—	3000	15.07
68C7	High-Mu Triode	D8	6.3	H	325	Cath. Bias, 550 ohms -68 volts, fixed bias	—	—	80.0	—	—	—	3000	15.07
68D4	High-Mu Triode	D8	6.3	H	325	Cath. Bias, 550 ohms -68 volts, fixed bias	—	—	80.0	—	—	—	3000	15.07
68D4-A	High-Mu Triode	D8	6.3	H	325	Cath. Bias, 550 ohms -68 volts, fixed bias	—	—	80.0	—	—	—	3000	15.07
68D6	High-Mu Triode	D8	6.3	H	325	Cath. Bias, 550 ohms -68 volts, fixed bias	—	—	80.0	—	—	—	3000	15.07
68E6	High-Mu Triode	D8	6.3	H	325	Cath. Bias, 550 ohms -68 volts, fixed bias	—	—	80.0	—	—	—	3000	15.07
68F5	High-Mu Triode	D8	6.3	H	325	Cath. Bias, 550 ohms -68 volts, fixed bias	—	—	80.0	—	—	—	3000	15.07
68F6	High-Mu Triode	D8	6.3	H	325	Cath. Bias, 550 ohms -68 volts, fixed bias	—	—	80.0	—	—	—	3000	15.07
68G6-G	High-Mu Triode	D8	6.3	H	325	Cath. Bias, 550 ohms -68 volts, fixed bias	—	—	80.0	—	—	—	3000	15.07

Discontinued types are shown in light face.







Type	Name	Tube Dimensions and Socket Connections	Cathode Type and Rating	Use	Plate Supply Vols	Grid Bias Vols	Screen Supply Vols	Screen Current mA	Plate Current mA	AC Plate Resistance Ohms	Trans-conductance (G <sub>m</sub> ) mhos	Amplification Factor	Load for Solid State Output Ohms	Power Output Watts
6D8-G	Pentagrid Converter	D8	6.3	Converter	135	-2.0	67.5	1.7	1.5	400000	—	—	—	—
6D6	Semiretrectifier Pentode	D6	6.3	Class A Amplifier	250	-3.0	100	2.5	3.5	600000	—	—	—	—
6D6	Sharp-Cutoff Pentode	D6	6.3	Class A Amplifier	200	Cath. Bias	150	3.0	9.0	500000	5500	—	Cath. Res. 180 ohms	—
6E5	Electron-Ray Tube	D4	6.3	Vacuum Indicator	—	—	—	—	—	—	—	—	—	—
6E6	Triode-Pentode Power Amplifier	D2	6.3	Class A Amplifier	180	-20.0	—	—	—	—	—	—	—	—
6E7	Remote-Cutoff Pentode	D13	6.3	Amplifier	250	-27.5	—	—	—	—	—	—	—	—
6F5	High-Mu Triode	D1	6.3	Amplifier	250	-16.5	250	6.5	34.0	80000	2500	—	7000	3.2
6F5-GT	High-Mu Triode	D1	6.3	Amplifier	250	-10.0	285	7.0	31.0	75000	2550	—	7000	4.8
6F6	—	D2	6.3	Class A Amplifier	250	-20.0	—	—	—	—	—	—	—	—
6F6-G	Power Pentode	D10	6.3	Class A Amplifier	315	Cath. Bias	285	12.0	62.0	—	—	—	—	—
6F6-GT	—	D10	6.3	Class A Amplifier	315	-24.0	285	12.0	62.0	—	—	—	—	—
6F7	Triode-Remote-Cutoff Pentode	D1	6.3	Class A Amplifier	375	Cath. Bias	250	8.0	34.0	—	—	—	—	—
6F8-G	Triode-Pentode Amplifier	D11	6.3	Class A Amplifier	350	Cath. Bias	250	5.0	34.0	—	—	—	—	—

6G6-G	Power Amplifier Pentode	D3	6.3	H	0.3	0.15	—	—	—	—	—	—	—	—
6H6	Triode-Pentode	A1	6.3	H	0.3	0.3	—	—	—	—	—	—	—	—
6H6-GT	—	D3	6.3	H	0.3	0.3	—	—	—	—	—	—	—	—
6J5	Medium-Mu Triode	D2	6.3	H	0.3	0.3	—	—	—	—	—	—	—	—
6J5-GT	—	D2	6.3	H	0.3	0.3	—	—	—	—	—	—	—	—
6J6	Medium-Mu Triode	D2	6.3	H	0.3	0.3	—	—	—	—	—	—	—	—
6J7	Sharp-Cutoff Pentode	D3	6.3	H	0.3	0.3	—	—	—	—	—	—	—	—
6J7-G	—	D3	6.3	H	0.3	0.3	—	—	—	—	—	—	—	—
6J7-GT	—	D3	6.3	H	0.3	0.3	—	—	—	—	—	—	—	—
6K5-G	High-Mu Triode	D3	6.3	H	0.3	0.3	—	—	—	—	—	—	—	—
6K6-GT	Power Pentode	D2	6.3	H	0.3	0.3	—	—	—	—	—	—	—	—
6K7	Remote-Cutoff Pentode	D1	6.3	H	0.3	0.3	—	—	—	—	—	—	—	—
6K7-G	—	D1	6.3	H	0.3	0.3	—	—	—	—	—	—	—	—
6K8	Triode-Pentode Converter	D1	6.3	H	0.3	0.3	—	—	—	—	—	—	—	—
6K8-G	—	D1	6.3	H	0.3	0.3	—	—	—	—	—	—	—	—
6K8-GT	—	D1	6.3	H	0.3	0.3	—	—	—	—	—	—	—	—
6L5-G	Medium-Mu Triode	D2	6.3	H	0.3	0.3	—	—	—	—	—	—	—	—

Discontinued types are shown in light face.







Type	Name	Tube Dimensions and Socket Connections	Cathode Type and Rating	Use	Plate Supply Vols	Grid Bias Vols	Screen Supply Vols	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Trans-conductance (Grid-plate) umhos	Amplification Factor	Load for Rated Power Output Ohms	Power Output Watts	For other characteristics, refer to Type 6SN7-GT A			
															Gain per stage = 40	Gain per stage = 53		
6SN7-GTB	Medium-Mu Twin-Triode	C2b	6.3	Each Unit as Class A Amplifier	100	-1.0	—	—	0.5	110000	925	100	—	—	—	—		
6SQ7	Twin-Diode High-Mu Triodes	B2	6.3	Triode Unit as Class A Amplifier	250	-2.0	—	—	1.1	85000	1175	100	—	—	—	—		
6SQ7-GT	Duplex-Diode Triode	C3	6.3	Triode Unit as Class A Amplifier	300 X	Cath. Bias, 11000 ohms, Cath. Bias, 3900 ohms.	—	—	Grid Resistor, ** 0.5 megohm.	—	—	—	—	—	—	—		
6SR7	Duplex-Diode Triode	B2	6.3	Triode Unit as Class A Amplifier	250	-9.0	—	—	9.5	8500	1900	16	10000	0.3	—	—		
6SS7	Remote-Cutoff Pentode	B2	6.3	Triode Unit as Class A Amplifier	100	-1.0	100	3.1	12-2	120000-1930	—	—	—	—	—	—		
6ST7	Duplex-Diode Triode	B2	6.3	Triode Unit as Class A Amplifier	250	-3.0	100	2.0	9.0	1.105	1850	—	—	—	—	—		
6SZ7	Twin-Diode High-Mu Triode	D2	6.3	Triode Unit as Class A Amplifier	250	-3.0	—	—	1.2	62000	1050	65	—	—	—	—		
6T7-G	Twin-Diode High-Mu Triode	D2	6.3	Triode Unit as Class A Amplifier	300 X	Cath. Bias, 3300 ohms, Cath. Bias, 4380 ohms.	—	—	Grid Resistor, ** 0.5 megohm.	—	—	—	—	Gain per stage = 30	Gain per stage = 40	—		
6T8	Triode-Diode High-Mu Triode	D2a	6.3	Triode Unit as Class A Amplifier	100	-3	—	—	0.8	54000	1300	70	—	—	—	—		
6U5	Electron-Ray Tube	D4	6.3	Visual Indicator	250	-3	—	—	0.8	58000	1200	70	—	—	—	—		
6U7-G	Remote-Cutoff Pentode	D2a	6.3	Class A Amplifier	100	-3.0	100	2.2	8-0	250000	1500	—	—	—	Oscillator Peak Volts = 7.0	—		
6U8	Triode-Remote-Cutoff Pentode	D2a	6.3	Class A Amplifier	250	-10.0	100	100	—	—	—	—	—	—	Cath. Res., 50 ohms	—		
6V3-A	Half-Wave Rectifier	D4a	6.3	Class A Amplifier	150	Cath. Bias	—	—	18	5000	8500	40	—	—	Cath. Res., 68 ohms	—		
															Max. Peak Inverse Plate Volts, 6500 (Ahs.)		Max. Peak Heater-Cathode Volts, -6750* (Ahs.)	
															Max. Peak Plate Ma., 809		Max. Peak Plate Volts, -1500	
															Max. DC Plate Ma., 135		*DC component not to exceed -750 volts	

6V6	Beam Power Tubes	C2b	6.3	Class AB <sub>1</sub> Amplifier	250	-3.0	100	2.0	8-2	800000	1500	—	—	—
6V6-GT	Duplex-Diode Triode	D2	6.3	Triode Unit as Amplifier	250	-3.0	100	2.0	8-2	800000	1500	—	—	—
6V7-G	Half-Wave Rectifier	D2b	6.3	Class A Amplifier	250	-10.0	100	100	—	—	—	—	—	—
6W4-GT	Beam Power Amplifier	D2b	6.3	Class A Amplifier	250	-10.0	100	100	—	—	—	—	—	—
6W6-GT	Sharp-Cutoff Pentode	D2b	6.3	Class A Amplifier	250	-10.0	100	100	—	—	—	—	—	—
6W7-G	Full-Wave Rectifier	D2b	6.3	Class A Amplifier	250	-10.0	100	100	—	—	—	—	—	—
6X4	Full-Wave Rectifier	D2b	6.3	Class A Amplifier	250	-10.0	100	100	—	—	—	—	—	—
6X5	Full-Wave Rectifier	D2b	6.3	Class A Amplifier	250	-10.0	100	100	—	—	—	—	—	—
6X5-GT	Triode-Pentode Converter	D2b	6.3	Class A Amplifier	250	-10.0	100	100	—	—	—	—	—	—
6X8	Triode-Pentode Converter	D2b	6.3	Class A Amplifier	250	-10.0	100	100	—	—	—	—	—	—
6Y5	Full-Wave Rectifier	D2b	6.3	Class A Amplifier	250	-10.0	100	100	—	—	—	—	—	—
6Y6-G	Beam Power Tube	D2b	6.3	Class A Amplifier	250	-10.0	100	100	—	—	—	—	—	—
6Y7-G	Twin-Triode Amplifier	D2b	6.3	Class A Amplifier	250	-10.0	100	100	—	—	—	—	—	—
6Z5	Full-Wave Rectifier	D2b	6.3	Class A Amplifier	250	-10.0	100	100	—	—	—	—	—	—
6Z7-G	Twin-Triode Amplifier	D2b	6.3	Class A Amplifier	250	-10.0	100	100	—	—	—	—	—	—
6ZY5-G	Full-Wave Rectifier	D2b	6.3	Class A Amplifier	250	-10.0	100	100	—	—	—	—	—	—
7A4	Medium-Mu Beam Tube	D2b	6.3	Class A Amplifier	250	-10.0	100	100	—	—	—	—	—	—
7A5	Power Tube	D2b	6.3	Class A Amplifier	250	-10.0	100	100	—	—	—	—	—	—

Discontinued types are shown in light face.



Type	Name	Dimensions and Socket Connections	Tube S.C.	C.T.	Vols.	Cathode Type and Rating	Use	Plate Supply Vols	Grid Bias Vols	Screen Supply Vols	Screen Current $M_2$	Plate Current $M_1$	AC Plate Resistance Ohms	Trans-conductance (Grid-plate) millimhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts
7A6	Twin Diode	9S	7AJ	H	6.3	0.15	Detector Rectifier	100	- 3.0	75	2.7	1.8	650000	150	16	250 ohms	max. volts, 4.2 ma. Oscillator-Grid (A1) Resistor •
7A7	Remote-Cutoff Pentode	9S	8V	H	6.3	0.3	Class A Amplifier	250	- 3.0	100	3.2	3.0	700000	17	17	600 ohms	Conversion Transcond., 550 micromhos.
7A8	Octode Converter	9S	8U	H	6.3	0.15	Converter	300	Cath. Bias	150	7.0	28.0	300000	9500	16	230 ohms	
7AD7	Power Pentode	92a	3V	H	6.3	0.6	Class A Amplifier	250	- 10	—	—	9.0	7600	2100	16	600 ohms	
7AF7	Medium-Mu Twin Triode	9S	8AG	H	6.3	0.3	Patch Unit as Class A Amplifier	100	Cath. Bias	—	—	10.8	6500	2600	17	Cath. Res., 600 ohms	
7AG7	Sharp-Cutoff Pentode	9S	9V	H	6.3	0.15	Class A Amplifier	250	Cath. Bias	250	2.0	6.0	1 meg.	4200	—	230 ohms	
7AH7	Sharp-Cutoff Pentode	9S	3V	H	6.3	0.15	Class A Amplifier	250	Cath. Bias	250	1.9	6.8	1 meg.	3300	—	—	
7AU7	Medium-Mu Twin Triode	92a	9A	H	3.5	0.6	Patch Unit as Class A Amplifier	100	0	—	—	13.0	6300	3500	22	—	
7B4	High-Mu Triode	9S	8AG	H	6.3	0.3	Amplifier	250	- 8.5	—	—	10.5	7950	2200	17.5	—	
7B5	Power Amplifier Pentode	92a	6AG	H	6.3	0.4	Class A Amplifier	250	—	—	—	—	—	—	—	—	
7B6	Twin-Mu Triode	9S	8W	H	6.3	0.3	Triode Unit as Amplifier	250	- 3.0	100	1.7	8.5	750000	1750	—	—	
7B7	Remote-Cutoff Pentode	9S	9V	H	6.3	0.15	Class A Amplifier	250	- 3.0	100	1.7	8.5	750000	1750	—	—	
7B8	Pentagrid Converter	9S	8X	H	6.3	0.3	Converter	—	—	—	—	—	—	—	—	—	
7C5	Beam Power Tube	92a	6AA	H	6.3	0.45	Class A Amplifier	250	- 1.0	—	—	1.3	100000	4000	160	—	
7C6	Twin-Diode High-Mu Triode	9S	8W	H	6.3	0.15	Triode Unit as Class A Amplifier	100	- 3.0	100	0.4	1.8	1.5	1225	—	—	
7C7	Sharp-Cutoff Pentode	9S	8V	H	6.3	0.15	Class A Amplifier	250	- 3.0	100	0.5	2.0	2.5	1300	—	—	
7E6	Twin-Diode Triode	9S	8W	H	6.3	0.3	Triode Unit as Amplifier	250	- 3.0	100	1.5	4.5	1.05	3100	—	—	

7E7	Twin-Diode Pentode	9S	8AE	H	6.3	0.3	Pentode Unit as Class A Amplifier	100	Cath. Bias	100	2.7	10.0	150000	1650	Cath. Res., 800 ohms			
7F7	Twin-Triode Amplifier	9S	8AC	H	6.3	0.3	Each Unit as Amplifier	250	—	100	1.6	7.5	700000	1300	Cath. Res., 330 ohms			
7F8	Twin-Triode Amplifier	9S	8AV	H	6.3	0.3	Class A Amplifier	250	Cathode-Bias Res., 500 ohms							48	—	—
7G7	Sharp-Cutoff Pentode	9S	8V	H	6.3	0.15	Class A Amplifier	250	— 2.0	100	2.0	6.0	800000	4500	—	—		
7H7	Sharp-Cutoff Pentode	9S	8V	H	6.3	0.3	Class A Amplifier	250	— 1.5	100	2.6	7.5	350000	4000	—	—		
7J7	Triode-Heptode Converter	9S	8DL	H	6.3	0.3	Triode Unit as Amplifier	100	— 1.5	100	3.2	10.0	800000	4000	Cath. Res., 180 ohms			
7K7	Twin-Diode High-Mu Triode	9S	8BF	H	6.3	0.3	Triode Unit as Amplifier	100	— 3.0	100	2.6	3.2	Triode-Grid & Heptode-Grid Current, 0.4 ma.	Cath. Res., 180 ohms				
7L7	RF Amplifier Pentode	9S	8V	H	6.3	0.3	Class A Amplifier	250	— 3.0	100	2.8	1.5	300000	Conversion Transcond., 280 micromhos				
7N7	Twin-Triode Amplifier	92a	8AC	H	6.3	0.6	Each Unit as Amplifier	250	— 2	—	—	2.3	44000	1600	70	—		
7Q7	Pentagrid Converter	9S	8AL	H	6.3	0.3	Class A Amplifier	100	— 1.0	100	2.4	5.5	100000	3000	—	—		
7R7	Twin-Diode Pentode	9S	8AE	H	6.3	0.3	Class A Amplifier	250	— 1.5	100	1.5	4.5	1.05	3100	—	—		
7S7	Triode-Heptode Converter	9S	8DL	H	6.3	0.3	Triode Unit as Amplifier	100	— 2.0	100	3.0	1.9	500000	Grid #1 Resistor, 20000 ohms.				
7V7	RF Amplifier Pentode	9S	8V	H	6.3	0.45	Class A Amplifier	300	—	130	3.9	10.0	300000	Conversion Transcond., 500 micromhos				
7W7	RF Amplifier Pentode	9S	8BU	H	6.3	0.45	Class A Amplifier	300	—	130	3.9	10.0	300000	5800	Cath. Bias Res., 160 ohms			
7X7	Twin-Diode High-Mu Triode	92a	8BZ	H	6.3	0.3	Triode Unit as Amplifier	100	— 0	—	—	1.2	85000	1000	85	—		
7Y4	Full-Wave Rectifier	9S	8AB	H	6.3	0.5	With Capacitive-Input Filter	250	— 1.0	100	2.2	5.5	67000	1500	109	—		
7Z4	Full-Wave Rectifier	92a	8AD	H	6.3	0.9	With Inductive-Input Filter	250	Max. AC Volts per Plate (RMS), 1250	Max. DC Output Ma., 180	Min. Total Effect. Supply							
106	Power Amplifier Triode	E3	4D	F	7.5	1.25	Class A Amplifier	425	Max. AC Volts per Plate (RMS), 450	Max. DC Output Ma., 180	Min. Value of Input Choke, 10 henries							

Discontinued types are shown in light face.







Type	Name	Tube Dimensions and Socket Connections	Cathode Type and Rating	Use	Plate Supply V <sub>pk</sub>	Grid Supply V <sub>pk</sub>	Screen Supply V <sub>pk</sub>	Screen Cur. Ht.	Plate Cur. Ht.	AC Plate Resistance Ohms	Trans-conductance (Ohm-plate) umhos	Amplification Factor	Lead for Shield Power Output Ohms	Power Output W <sub>pk</sub>
12CA5	Beam Power Tube	Dipin. 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100, 102, 104, 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130, 132, 134, 136, 138, 140, 142, 144, 146, 148, 150, 152, 154, 156, 158, 160, 162, 164, 166, 168, 170, 172, 174, 176, 178, 180, 182, 184, 186, 188, 190, 192, 194, 196, 198, 200, 202, 204, 206, 208, 210, 212, 214, 216, 218, 220, 222, 224, 226, 228, 230, 232, 234, 236, 238, 240, 242, 244, 246, 248, 250, 252, 254, 256, 258, 260, 262, 264, 266, 268, 270, 272, 274, 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 296, 298, 300, 302, 304, 306, 308, 310, 312, 314, 316, 318, 320, 322, 324, 326, 328, 330, 332, 334, 336, 338, 340, 342, 344, 346, 348, 350, 352, 354, 356, 358, 360, 362, 364, 366, 368, 370, 372, 374, 376, 378, 380, 382, 384, 386, 388, 390, 392, 394, 396, 398, 400, 402, 404, 406, 408, 410, 412, 414, 416, 418, 420, 422, 424, 426, 428, 430, 432, 434, 436, 438, 440, 442, 444, 446, 448, 450, 452, 454, 456, 458, 460, 462, 464, 466, 468, 470, 472, 474, 476, 478, 480, 482, 484, 486, 488, 490, 492, 494, 496, 498, 500, 502, 504, 506, 508, 510, 512, 514, 516, 518, 520, 522, 524, 526, 528, 530, 532, 534, 536, 538, 540, 542, 544, 546, 548, 550, 552, 554, 556, 558, 560, 562, 564, 566, 568, 570, 572, 574, 576, 578, 580, 582, 584, 586, 588, 590, 592, 594, 596, 598, 600, 602, 604, 606, 608, 610, 612, 614, 616, 618, 620, 622, 624, 626, 628, 630, 632, 634, 636, 638, 640, 642, 644, 646, 648, 650, 652, 654, 656, 658, 660, 662, 664, 666, 668, 670, 672, 674, 676, 678, 680, 682, 684, 686, 688, 690, 692, 694, 696, 698, 700, 702, 704, 706, 708, 710, 712, 714, 716, 718, 720, 722, 724, 726, 728, 730, 732, 734, 736, 738, 740, 742, 744, 746, 748, 750, 752, 754, 756, 758, 760, 762, 764, 766, 768, 770, 772, 774, 776, 778, 780, 782, 784, 786, 788, 790, 792, 794, 796, 798, 800, 802, 804, 806, 808, 810, 812, 814, 816, 818, 820, 822, 824, 826, 828, 830, 832, 834, 836, 838, 840, 842, 844, 846, 848, 850, 852, 854, 856, 858, 860, 862, 864, 866, 868, 870, 872, 874, 876, 878, 880, 882, 884, 886, 888, 890, 892, 894, 896, 898, 900, 902, 904, 906, 908, 910, 912, 914, 916, 918, 920, 922, 924, 926, 928, 930, 932, 934, 936, 938, 940, 942, 944, 946, 948, 950, 952, 954, 956, 958, 960, 962, 964, 966, 968, 970, 972, 974, 976, 978, 980, 982, 984, 986, 988, 990, 992, 994, 996, 998, 1000, 1002, 1004, 1006, 1008, 1010, 1012, 1014, 1016, 1018, 1020, 1022, 1024, 1026, 1028, 1030, 1032, 1034, 1036, 1038, 1040, 1042, 1044, 1046, 1048, 1050, 1052, 1054, 1056, 1058, 1060, 1062, 1064, 1066, 1068, 1070, 1072, 1074, 1076, 1078, 1080, 1082, 1084, 1086, 1088, 1090, 1092, 1094, 1096, 1098, 1100, 1102, 1104, 1106, 1108, 1110, 1112, 1114, 1116, 1118, 1120, 1122, 1124, 1126, 1128, 1130, 1132, 1134, 1136, 1138, 1140, 1142, 1144, 1146, 1148, 1150, 1152, 1154, 1156, 1158, 1160, 1162, 1164, 1166, 1168, 1170, 1172, 1174, 1176, 1178, 1180, 1182, 1184, 1186, 1188, 1190, 1192, 1194, 1196, 1198, 1200, 1202, 1204, 1206, 1208, 1210, 1212, 1214, 1216, 1218, 1220, 1222, 1224, 1226, 1228, 1230, 1232, 1234, 1236, 1238, 1240, 1242, 1244, 1246, 1248, 1250, 1252, 1254, 1256, 1258, 1260, 1262, 1264, 1266, 1268, 1270, 1272, 1274, 1276, 1278, 1280, 1282, 1284, 1286, 1288, 1290, 1292, 1294, 1296, 1298, 1300, 1302, 1304, 1306, 1308, 1310, 1312, 1314, 1316, 1318, 1320, 1322, 1324, 1326, 1328, 1330, 1332, 1334, 1336, 1338, 1340, 1342, 1344, 1346, 1348, 1350, 1352, 1354, 1356, 1358, 1360, 1362, 1364, 1366, 1368, 1370, 1372, 1374, 1376, 1378, 1380, 1382, 1384, 1386, 1388, 1390, 1392, 1394, 1396, 1398, 1400, 1402, 1404, 1406, 1408, 1410, 1412, 1414, 1416, 1418, 1420, 1422, 1424, 1426, 1428, 1430, 1432, 1434, 1436, 1438, 1440, 1442, 1444, 1446, 1448, 1450, 1452, 1454, 1456, 1458, 1460, 1462, 1464, 1466, 1468, 1470, 1472, 1474, 1476, 1478, 1480, 1482, 1484, 1486, 1488, 1490, 1492, 1494, 1496, 1498, 1500, 1502, 1504, 1506, 1508, 1510, 1512, 1514, 1516, 1518, 1520, 1522, 1524, 1526, 1528, 1530, 1532, 1534, 1536, 1538, 1540, 1542, 1544, 1546, 1548, 1550, 1552, 1554, 1556, 1558, 1560, 1562, 1564, 1566, 1568, 1570, 1572, 1574, 1576, 1578, 1580, 1582, 1584, 1586, 1588, 1590, 1592, 1594, 1596, 1598, 1600, 1602, 1604, 1606, 1608, 1610, 1612, 1614, 1616, 1618, 1620, 1622, 1624, 1626, 1628, 1630, 1632, 1634, 1636, 1638, 1640, 1642, 1644, 1646, 1648, 1650, 1652, 1654, 1656, 1658, 1660, 1662, 1664, 1666, 1668, 1670, 1672, 1674, 1676, 1678, 1680, 1682, 1684, 1686, 1688, 1690, 1692, 1694, 1696, 1698, 1700, 1702, 1704, 1706, 1708, 1710, 1712, 1714, 1716, 1718, 1720, 1722, 1724, 1726, 1728, 1730, 1732, 1734, 1736, 1738, 1740, 1742, 1744, 1746, 1748, 1750, 1752, 1754, 1756, 1758, 1760, 1762, 1764, 1766, 1768, 1770, 1772, 1774, 1776, 1778, 1780, 1782, 1784, 1786, 1788, 1790, 1792, 1794, 1796, 1798, 1800, 1802, 1804, 1806, 1808, 1810, 1812, 1814, 1816, 1818, 1820, 1822, 1824, 1826, 1828, 1830, 1832, 1834, 1836, 1838, 1840, 1842, 1844, 1846, 1848, 1850, 1852, 1854, 1856, 1858, 1860, 1862, 1864, 1866, 1868, 1870, 1872, 1874, 1876, 1878, 1880, 1882, 1884, 1886, 1888, 1890, 1892, 1894, 1896, 1898, 1900, 1902, 1904, 1906, 1908, 1910, 1912, 1914, 1916, 1918, 1920, 1922, 1924, 1926, 1928, 1930, 1932, 1934, 1936, 1938, 1940, 1942, 1944, 1946, 1948, 1950, 1952, 1954, 1956, 1958, 1960, 1962, 1964, 1966, 1968, 1970, 1972, 1974, 1976, 1978, 1980, 1982, 1984, 1986, 1988, 1990, 1992, 1994, 1996, 1998, 2000, 2002, 2004, 2006, 2008, 2010, 2012, 2014, 2016, 2018, 2020, 2022, 2024, 2026, 2028, 2030, 2032, 2034, 2036, 2038, 2040, 2042, 2044, 2046, 2048, 2050, 2052, 2054, 2056, 2058, 2060, 2062, 2064, 2066, 2068, 2070, 2072, 2074, 2076, 2078, 2080, 2082, 2084, 2086, 2088, 2090, 2092, 2094, 2096, 2098, 2100, 2102, 2104, 2106, 2108, 2110, 2112, 2114, 2116, 2118, 2120, 2122, 2124, 2126, 2128, 2130, 2132, 2134, 2136, 2138, 2140, 2142, 2144, 2146, 2148, 2150, 2152, 2154, 2156, 2158, 2160, 2162, 2164, 2166, 2168, 2170, 2172, 2174, 2176, 2178, 2180, 2182, 2184, 2186, 2188, 2190, 2192, 2194, 2196, 2198, 2200, 2202, 2204, 2206, 2208, 2210, 2212, 2214, 2216, 2218, 2220, 2222, 2224, 2226, 2228, 2230, 2232, 2234, 2236, 2238, 2240, 2242, 2244, 2246, 2248, 2250, 2252, 2254, 2256, 2258, 2260, 2262, 2264, 2266, 2268, 2270, 2272, 2274, 2276, 2278, 2280, 2282, 2284, 2286, 2288, 2290, 2292, 2294, 2296, 2298, 2300, 2302, 2304, 2306, 2308, 2310, 2312, 2314, 2316, 2318, 2320, 2322, 2324, 2326, 2328, 2330, 2332, 2334, 2336, 2338, 2340, 2342, 2344, 2346, 2348, 2350, 2352, 2354, 2356, 2358, 2360, 2362, 2364, 2366, 2368, 2370, 2372, 2374, 2376, 2378, 2380, 2382, 2384, 2386, 2388, 2390, 2392, 2394, 2396, 2398, 2400, 2402, 2404, 2406, 2408, 2410, 2412, 2414, 2416, 2418, 2420, 2422, 2424, 2426, 2428, 2430, 2432, 2434, 2436, 2438, 2440, 2442, 2444, 2446, 2448, 2450, 2452, 2454, 2456, 2458, 2460, 2462, 2464, 2466, 2468, 2470, 2472, 2474, 2476, 2478, 2480, 2482, 2484, 2486, 2488, 2490, 2492, 2494, 2496, 2498, 2500, 2502, 2504, 2506, 2508, 2510, 2512, 2514, 2516, 2518, 2520, 2522, 2524, 2526, 2528, 2530, 2532, 2534, 2536, 2538, 2540, 2542, 2544, 2546, 2548, 2550, 2552, 2554, 2556, 2558, 2560, 2562, 2564, 2566, 2568, 2570, 2572, 2574, 2576, 2578, 2580, 2582, 2584, 2586, 2588, 2590, 2592, 2594, 2596, 2598, 2600, 2602, 2604, 2606, 2608, 2610, 2612, 2614, 2616, 2618, 2620, 2622, 2624, 2626, 2628, 2630, 2632, 2634, 2636, 2638, 2640, 2642, 2644, 2646, 2648, 2650, 2652, 2654, 2656, 2658, 2660, 2662, 2664, 2666, 2668, 2670, 2672, 2674, 2676, 2678, 2680, 2682, 2684, 2686, 2688, 2690, 2692, 2694, 2696, 2698, 2700, 2702, 2704, 2706, 2708, 2710, 2712, 2714, 2716, 2718, 2720, 2722, 2724, 2726, 2728, 2730, 2732, 2734, 2736, 2738, 2740, 2742, 2744, 2746, 2748, 2750, 2752, 2754, 2756, 2758, 2760, 2762, 2764, 2766, 2768, 2770, 2772, 2774, 2776, 2778, 2780, 2782, 2784, 2786, 2788, 2790, 2792, 2794, 2796, 2798, 2800, 2802, 2804, 2806, 2808, 2810, 2812, 2814, 2816, 2818, 2820, 2822, 2824, 2826, 2828, 2830, 2832, 2834, 2836, 2838, 2840, 2842, 2844, 2846, 2848, 2850, 2852, 2854, 2856, 2858, 2860, 2862, 2864, 2866, 2868, 2870, 2872, 2874, 2876, 2878, 2880, 2882, 2884, 2886, 2888, 2890, 2892, 2894, 2896, 2898, 2900, 2902, 2904, 2906, 2908, 2910, 2912, 2914, 2916, 2918, 2920, 2922, 2924, 2926, 2928, 2930, 2932, 2934, 2936, 2938, 2940, 2942, 2944, 2946, 2948, 2950, 2952, 2954, 2956, 2958, 2960, 2962, 2964, 2966, 2968, 2970, 2972, 2974, 2976, 2978, 2980, 2982, 2984, 2986, 2988, 2990, 2992, 2994, 2996, 2998, 3000, 3002, 3004, 3006, 3008, 3010, 3012, 3014, 3016, 3018, 3020, 3022, 3024, 3026, 3028, 3030, 3032, 3034, 3036, 3038, 3040, 3042, 3044, 3046, 3048, 3050, 3052, 3054, 3056, 3058, 3060, 3062, 3064, 3066, 3068, 3070, 3072, 3074, 3076, 3078, 3080, 3082, 3084, 3086, 3088, 3090, 3092, 3094, 3096, 3098, 3100, 3102, 3104, 3106, 3108, 3110, 3112, 3114, 3116, 3118, 3120, 3122, 3124, 3126, 3128, 3130, 3132, 3134, 3136, 3138, 3140, 3142, 3144, 3146, 3148, 3150, 3152, 3154, 3156, 3158, 3160, 3162, 3164, 3166, 3168, 3170, 3172, 3174, 3176, 3178, 3180, 3182, 3184, 3186, 3188, 3190, 3192, 3194, 3196, 3198, 3200, 3202, 3204, 3206, 3208, 3210, 3212, 3214, 3216, 3218, 3220, 3222, 3224, 3226, 3228, 3230, 3232, 3234, 3236, 3238, 3240, 3242, 3244, 3246, 3248, 3250, 3252, 3254, 3256, 3258, 3260, 3262, 3264, 3266, 3268, 3270, 3272, 3274, 3276, 3278, 3280, 3282, 3284, 3286, 3288, 3290, 3292, 3294, 3296, 3298, 3300, 3302, 3304, 3306, 3308, 3310, 3312, 3314, 3316, 3318, 3320, 3322, 3324, 3326, 3328, 3330, 3332, 3334, 3336, 3338, 3340, 3342, 3344, 3346, 3348, 3350, 3352, 3354, 3356, 3358, 3360, 3362, 3364, 3366, 3368, 3370, 3372, 3374, 3376, 3378, 3380, 3382, 3384, 3386, 3388, 3390, 3392, 3394, 3396, 3398, 3400, 3402, 3404, 3406, 3408, 3410, 3412, 3414, 3416, 3418, 3420, 3422, 3424, 3426, 3428, 3430, 3432, 3434, 3436, 3438, 3440, 3442, 3444, 3446, 3448, 3450, 3452, 3454, 3456, 3458, 3460, 3462, 3464, 3466, 3468, 3470, 3472, 3474, 3476, 3478, 3480, 3482, 3484, 3486, 3488, 3490, 3492, 3494, 3496, 3498, 3500, 3502, 3504, 3506, 3508, 3510, 3512, 3514, 3516, 3518, 3520, 3522, 3524, 3526, 3528, 3530, 3532, 3534, 3536, 3538, 3540, 3542, 3544, 3546, 3548, 3550, 3552, 3554, 3556, 3558, 3560, 3562, 3564, 3566, 3568, 3570, 3572, 3574, 3576, 3578, 3580, 3582, 3584, 3586, 3588, 3590, 3592, 3594, 3596, 3598, 3600, 3602, 3604, 3606, 3608, 3610, 3612, 3614, 3616, 3618, 3620, 3622, 3624, 3626, 3628, 3630, 3632, 3634, 3636, 3638, 3640, 3642, 3644, 3646, 3648, 3650, 3652, 3654, 3656, 3658, 3660, 3662, 3664, 3666, 3668, 3670, 3672, 3674, 3676, 3678, 3680, 3682, 3684, 3686, 3688, 3690, 3692, 3694, 3696, 3698, 3700, 3702, 3704, 3706, 3708, 3710, 3712, 3714, 3716, 3718, 3720, 3722, 3724, 3726, 3728, 3730, 3732, 3734, 3736, 3738, 3740, 3742, 3744, 3746, 3748, 3750, 3752, 3754, 3756, 3758, 3760, 3762, 3764, 3766, 3768, 3770, 3772, 3774, 3776, 3778, 3780, 3782, 3784, 3786, 3788, 3790, 3792, 3794, 3796, 3798, 3800, 3802, 3804, 3806, 3808, 3810, 3812, 3814, 3816, 3818, 3820, 3822, 3824, 3826, 3828, 3830, 3832, 3834, 3836, 3838, 3840, 3842, 3844, 3846, 3848, 3850, 3852, 3854, 3856, 3858, 3860, 3862, 3864, 3866, 3868, 3870, 3872, 3874, 3876, 3878, 3880, 3882, 3884, 3886, 3888, 3890, 3892, 3894, 3896, 3898, 3900, 3902, 3904, 3906, 3908, 3910, 3912, 3914, 3916, 3918, 3920, 3922, 3924, 3926, 3928, 3930, 3932, 3934, 3936, 3938, 3940, 3942, 3944, 3946, 3948, 3950, 3952, 3954, 3956, 3958, 3960, 3962, 3964, 3966, 3968, 3970, 3972, 3974, 3976, 3978, 3980, 3982, 3984, 3986, 3988, 3990, 3992, 3994, 3996, 3998, 4000, 4002, 4004, 4006, 4008, 4010, 4012, 4014, 4016, 4018, 4020, 4022, 4024, 4026, 4028, 4030, 4032, 4034, 4036, 4038, 4040, 4042, 4044, 4046, 4048, 4050, 4052, 4054, 4056, 4058, 4060, 4062, 4064, 4066, 4068, 4070, 4072, 4074, 4076, 4078, 4080, 4082, 4084, 4086, 4088, 4090, 4092, 4094, 4096, 4098, 4100, 4102, 4104, 4106, 4108, 4110, 4112, 4114, 4116, 4118, 4120, 4122, 4124, 4126, 4128, 4130, 4132, 4134, 4136, 4138, 4140, 4142, 4144, 4146, 4148, 4150, 4152, 4154, 4156, 4158, 4160, 4162, 4164, 4166, 4168, 4170, 4172, 4174, 4176, 4178, 4180, 4182, 4184, 4186, 4188, 4190, 4192, 4194, 4196, 4198, 4200, 4202, 4204, 4206, 4208, 4210, 4212, 4214, 4216, 4218, 4220, 4222, 4224, 4226, 4228, 4230, 4232, 4234, 4236, 4238, 4240, 4242												



Type	Name	Dimensions and Socket Connections	Cathode Type and Rating	Use	Plate Supply Volts	Grid Bias Volts	Screen Supp. Volts	Screen Current mA	Plate Current mA	AC Plate Resistance Ohms	Trans-conductance (Grid-Plate) Units	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts
14F8	Medium-Mu Triode	9B6	H 12.6	Each Unit as Class A Amplifier	250	—	—	—	6.0	—	3300	48	—	—
14H7	Remote-Control Pentode	B5	H 12.6	Class A Amplifier	—	—	—	—	—	—	—	—	—	—
14J7	Triode-Heptode Converter	D9	H 12.6	Converter	—	—	—	—	—	—	—	—	—	—
14N7	Twin-Triode Amplifier	C2a	H 12.6	Each Unit as Class A Amplifier	—	—	—	—	—	—	—	—	—	—
14Q7	Pentagrid Converter	B5	H 12.6	Converter	—	—	—	—	—	—	—	—	—	—
14R7	Twin-Diode Pentode	S5	H 12.6	Horizontal Deflection Unit as Class A Amplifier	67.5 135	1.5 1.5	67.5 67.5	0.3 0.3	1.85 1.85	630000 800000	710 750	—	—	—
15	RF Amplifier Pentode	D9	D.C. H 2.0	Class A Amplifier	—	—	—	—	—	—	—	—	—	—
19	Twin-Triode Amplifier	D5	D.C. P 2.0	Amplifier	—	—	—	—	—	—	—	—	—	—
19BQ6-G	Beam Power Tube	F1	H 18.9	Horizontal Deflection Amplifier in TV Receivers	Max. DC Plate Volts, 700 Max. DC Plate Current, 100 ma.	—	—	—	—	—	—	—	—	—
19J6	Medium-Mu Twin Triode	B5	H 18.9	Each Unit as Class A Amplifier	100	—	—	—	8.5	7100	5300	38	—	—
19T8	Triode-Diode High-Mu Triode	B5a	H 18.9	Triode Unit as Class A Amplifier	—	—	—	—	—	—	—	—	—	—
19X8	Triode Pentode Converter	B5a	H 18.9	Class A Amplifier	90 35	-16.5 -22.5	—	—	3.0 6.5	8000 6300	415 525	8.3 5.3	9600 6500	0.045 0.118
20	Power Amplifier Triode	D1	D.C. F 3.3	Screen-Grid RF Amplifier	35	1.5	67.5	0.6*	1.7	75000	375	—	—	—
22	RF Amplifier Triode	E1	D.C. F 3.3	Seven-Grid RF Amplifier	35	1.5	67.5	1.3*	3.7	35000	500	—	—	—
24-A	RF Amplifier Triode	E1	H 2.5	Biased Detector	80 50	3.0 3.0	90 90	1.7* 1.7*	4.0 4.0	400000 600000	1000 1030	—	—	—
25A6	Power Amplifier Pentode	C2	H 23.0	Class A Amplifier	105 100	-16.0 -23.0	135 135	1.8 2.0	48.0 62.0	15500 18000	4800 5000	—	—	—

25A6-GT	Power Amplifier Pentode	C3	G-281	H 25.0	0.3	Class A Amplifier	100	-15.0	100	4.0*	20.5	50000	1800	—	4500	0.77
25A7-GT	Rectifier Pentode	C3	B	H 25.0	0.3	Class A Amplifier	Max. AC Plate Volts (RMS), 117 Max. Peak Inverse Volts, 350	—	—	—	—	—	—	—	—	—
25AC5-GT	High-Mu Power Amplifier Triode	C3	D-201	H 25.0	0.3	Class B Amplifier	180	0	—	—	4.0*	—	—	—	4800	6.0
25B5	Direct-Coupled Power Amplifier Pentode	D9a	E0	H 25.0	0.3	Amplifier	110	—	—	—	—	—	—	—	—	—
25B6-G	Power Amplifier Pentode	D19	G-251	H 25.0	0.3	Class A Amplifier	105 200	-16.0 -23.0	135 135	2.0 1.8	48.0 62.0	15500 18000	4800 5000	—	—	—
25B8-GT	Triode-Pentode	C3	GT	H 25.0	0.15	Class A Amplifier	100	-1.0	—	—	0.6	75000	1500	112	—	—
25BQ6-GT	Beam Power Tube	C11	6AM	H 25.0	0.3	Horizontal Deflection Amplifier in TV Receivers	100	-3.0	100	2.0	7.5	185000	2000	—	—	—
25BQ6-GT/25C06	Beam Power Tube	C11	6AM	H 25.0	0.3	Horizontal Deflection Amplifier in TV Receivers	Max. DC Plate Volts, 600 Max. DC Cathode Max., 112.5	—	—	—	—	—	—	—	—	—
25C6-G	Beam Power Tube	D19	G-7061	H 25.0	0.3	Class A Amplifier	110	-4.0	110	3.5	32	16000	8100	—	3500	1.1
25CA5	Beam Power Tube	D1	7CV	H 25.0	0.3	Class A Amplifier	135	-4.5	135	4.0	37	15000	9200	—	4500	1.5
25CD6-GA	Beam Power Tube	F1	60T	H 25	0.6	Horizontal Deflection Amplifier in TV Receivers	Max. DC Plate Volts, 700 Max. DC Plate Max., 170	—	—	—	—	—	—	—	—	—
25L6	Beam Power Tube	C4	74C	H 25.0	0.3	Amplifier	110 200	-7.5 -8.0	110 110	4.0 2.0	49.0 50.0	13000 30000	9500 9500	—	2000 3000	2.1 4.3
25L6-GT	Power Tube	C2b	G-74C1	H 25.0	0.3	Amplifier	—	—	—	—	—	—	—	—	—	—
25N6-G	Direct-Coupled Power Amplifier	D5	G-74W	H 25.0	0.3	Class A Amplifier	Output Triode: Plate Volts, 180 Triode: Plate Volts, 100	—	—	—	—	—	—	—	—	—
25W4-GT	Triode-Wave Rectifier	E2b	400	H 25.0	0.3	With Capacitive-Input Filter	Max. AC Plate Volts (RMS), 350 Max. Peak Inverse Volts, 2000	—	—	—	—	—	—	—	—	—
25Y5	Rectifier-Doubler	D6	6E	H 25.0	0.3	Half-Wave Rectifier	Max. AC Volts per Plate (RMS), 135 Max. DC Output Max. per Plate, 75	—	—	—	—	—	—	—	—	—
25Z5	Rectifier-Doubler	D6	6E	H 25.0	0.3	Doubler	—	—	—	—	—	—	—	—	—	—

Discontinued types are shown in light face.



Type	Name	Tube Dimensions and Socket Connections	Cathode Type and Rating		Use	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Screen Current mA	Plate Current mA	AC Plate Resistance Ohms	Trans-conductance (Grid-plate) mhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts
			C.T.	Volts											
25Z6	Vacuum Rectifier-Doubler	C2	H	25-0	0.3	Max. AC Plate Volts per Plate (RMS), 117 Max. DC Output, Max. 75	Max. AC Plate Volts per Plate (RMS), 235 Max. DC Output, Max. 75	Min. Total Effective Plate-Supply Impedance: 15 ohms. Wave, 30 ohms; Full-Wave, 15 ohms.	Min. Total Effective Plate-Supply Impedance: 15 ohms. Wave, 30 ohms; Full-Wave, 15 ohms.	Min. Total Effective Plate-Supply Impedance: 15 ohms. Wave, 30 ohms; Full-Wave, 15 ohms.	Min. Total Effective Plate-Supply Impedance: 15 ohms. Wave, 30 ohms; Full-Wave, 15 ohms.	Min. Total Effective Plate-Supply Impedance: 15 ohms. Wave, 30 ohms; Full-Wave, 15 ohms.	Min. Total Effective Plate-Supply Impedance: 15 ohms. Wave, 30 ohms; Full-Wave, 15 ohms.	Min. Total Effective Plate-Supply Impedance: 15 ohms. Wave, 30 ohms; Full-Wave, 15 ohms.	Min. Total Effective Plate-Supply Impedance: 15 ohms. Wave, 30 ohms; Full-Wave, 15 ohms.
25Z6-GT	Vacuum Rectifier-Doubler	C2b	H	25-0	0.3	Max. AC Plate Volts per Plate (RMS), 117 Max. DC Output, Max. 75	Max. AC Plate Volts per Plate (RMS), 235 Max. DC Output, Max. 75	Min. Total Effective Plate-Supply Impedance: 15 ohms. Wave, 30 ohms; Full-Wave, 15 ohms.	Min. Total Effective Plate-Supply Impedance: 15 ohms. Wave, 30 ohms; Full-Wave, 15 ohms.	Min. Total Effective Plate-Supply Impedance: 15 ohms. Wave, 30 ohms; Full-Wave, 15 ohms.	Min. Total Effective Plate-Supply Impedance: 15 ohms. Wave, 30 ohms; Full-Wave, 15 ohms.	Min. Total Effective Plate-Supply Impedance: 15 ohms. Wave, 30 ohms; Full-Wave, 15 ohms.	Min. Total Effective Plate-Supply Impedance: 15 ohms. Wave, 30 ohms; Full-Wave, 15 ohms.	Min. Total Effective Plate-Supply Impedance: 15 ohms. Wave, 30 ohms; Full-Wave, 15 ohms.	Min. Total Effective Plate-Supply Impedance: 15 ohms. Wave, 30 ohms; Full-Wave, 15 ohms.
26	Amplifier Triode	D12	F	1.5	1.05	Class A Amplifier	90 -7.0 -14.5	—	—	—	8500 2300 1150	0.35 8.3 8.3	—	—	—
27	Detector* Amplifier Triode	D1	H	2.5	1.75	Class A Amplifier	135 -9.0 -21.0	—	—	—	9000 975	1000 9.0	—	—	—
30	Medium-Mu Triode	D5	F	2.0	0.06	Class A Amplifier	250 -10.0 approx.	—	—	—	—	—	—	—	—
31	Power Amplifier Triode	D5	F	2.0	0.13	Class A Amplifier	135 -9.0 -21.0	—	—	—	—	—	—	—	—
32	RF Amplifier Triode	E1	H	2.5	0.05	Class A Amplifier	180 -6.0 approx.	—	—	—	—	—	—	—	—
32L7-GT	Rectifier-Beam Power Amplifier	C3	H	32.5	0.3	Class A Amplifier	90 -5.0 90	—	—	—	15000 6000	—	—	2600	0.8
33	Power Amplifier Pentode	D12	F	2.0	0.26	Class A Amplifier	180 -18.0 —	—	—	—	17000 4800	—	—	2600	1.0
34	Remote-Cutoff Pentode	E1	H	2.5	0.06	Class A Amplifier	135 -3.0 min.	—	—	—	600000 600	—	—	—	—
35	Remote-Cutoff Triode	E1	H	2.5	1.75	Class A Amplifier	180 -3.0 min.	—	—	—	300000 1030	—	—	—	—
35A5	Beam Power Tube	C2a	H	35.0	0.15	Class A Amplifier	250 -3.0 min.	—	—	—	400000 1050	—	—	—	—
35B5	Beam Power Tube	B1	H	35.0	0.15	Class A Amplifier	110 -7.5 —	—	—	—	13000 5800	—	—	2500	1.5
35C5	Beam Power Tube	B1	H	35.0	0.15	Class A Amplifier	110 -7.5 —	—	—	—	13000 5800	—	—	2500	1.5
35L6-GT	Beam Power Tube	C2b	H	35.0	0.15	Class A Amplifier	200 -7.5 —	—	—	—	34000 6100	—	—	3000	3.0

35W4	Half-Wave Rectifier for Pilot Heater Tap for Pilot	E1	Q	H	35.0	0.15	With Capacitive-Input Filter	Max. AC Plate Volts (RMS), 117 Max. DC Output Max., 100	Min. Total Effective Plate-Supply Impedance: Up to 117 volts, 15 ohms; at 235 volts, 100 ohms.	Max. AC Plate Volts (RMS), 117 Max. DC Output Max., 100	Min. Total Effective Plate-Supply Impedance: Up to 117 volts, 15 ohms; at 235 volts, 100 ohms.	Max. AC Plate Volts (RMS), 117 Max. DC Output Max., 100	Min. Total Effective Plate-Supply Impedance: Up to 117 volts, 15 ohms; at 235 volts, 100 ohms.	Max. AC Plate Volts (RMS), 117 Max. DC Output Max., 100	Min. Total Effective Plate-Supply Impedance: Up to 117 volts, 15 ohms; at 235 volts, 100 ohms.
35Y4	Half-Wave Rectifier for Pilot Heater Tap for Pilot	E2a	Q	H	35.0	0.15	With Capacitive-Input Filter	Max. AC Plate Volts (RMS), 117 Max. DC Output Max., 100	Min. Total Effective Plate-Supply Impedance: Up to 117 volts, 15 ohms; at 235 volts, 100 ohms.	Max. AC Plate Volts (RMS), 117 Max. DC Output Max., 100	Min. Total Effective Plate-Supply Impedance: Up to 117 volts, 15 ohms; at 235 volts, 100 ohms.	Max. AC Plate Volts (RMS), 117 Max. DC Output Max., 100	Min. Total Effective Plate-Supply Impedance: Up to 117 volts, 15 ohms; at 235 volts, 100 ohms.	Max. AC Plate Volts (RMS), 117 Max. DC Output Max., 100	Min. Total Effective Plate-Supply Impedance: Up to 117 volts, 15 ohms; at 235 volts, 100 ohms.
35Z3	Half-Wave Rectifier	E2b	Q	H	35.0	0.15	With Capacitive-Input Filter	Max. AC Plate Volts (RMS), 117 Max. DC Output Max., 100	Min. Total Effective Plate-Supply Impedance: Up to 117 volts, 15 ohms; at 235 volts, 100 ohms.	Max. AC Plate Volts (RMS), 117 Max. DC Output Max., 100	Min. Total Effective Plate-Supply Impedance: Up to 117 volts, 15 ohms; at 235 volts, 100 ohms.	Max. AC Plate Volts (RMS), 117 Max. DC Output Max., 100	Min. Total Effective Plate-Supply Impedance: Up to 117 volts, 15 ohms; at 235 volts, 100 ohms.	Max. AC Plate Volts (RMS), 117 Max. DC Output Max., 100	Min. Total Effective Plate-Supply Impedance: Up to 117 volts, 15 ohms; at 235 volts, 100 ohms.
35Z4-GT	Half-Wave Rectifier	E2b	Q	H	35.0	0.15	With Capacitive-Input Filter	Max. AC Plate Volts (RMS), 117 Max. DC Output Max., 100	Min. Total Effective Plate-Supply Impedance: Up to 117 volts, 15 ohms; at 235 volts, 100 ohms.	Max. AC Plate Volts (RMS), 117 Max. DC Output Max., 100	Min. Total Effective Plate-Supply Impedance: Up to 117 volts, 15 ohms; at 235 volts, 100 ohms.	Max. AC Plate Volts (RMS), 117 Max. DC Output Max., 100	Min. Total Effective Plate-Supply Impedance: Up to 117 volts, 15 ohms; at 235 volts, 100 ohms.	Max. AC Plate Volts (RMS), 117 Max. DC Output Max., 100	Min. Total Effective Plate-Supply Impedance: Up to 117 volts, 15 ohms; at 235 volts, 100 ohms.
35Z5-GT	Half-Wave Rectifier	E2b	Q	H	35.0	0.15	With Capacitive-Input Filter	Max. AC Plate Volts (RMS), 117 Max. DC Output Max., 100	Min. Total Effective Plate-Supply Impedance: Up to 117 volts, 15 ohms; at 235 volts, 100 ohms.	Max. AC Plate Volts (RMS), 117 Max. DC Output Max., 100	Min. Total Effective Plate-Supply Impedance: Up to 117 volts, 15 ohms; at 235 volts, 100 ohms.	Max. AC Plate Volts (RMS), 117 Max. DC Output Max., 100	Min. Total Effective Plate-Supply Impedance: Up to 117 volts, 15 ohms; at 235 volts, 100 ohms.	Max. AC Plate Volts (RMS), 117 Max. DC Output Max., 100	Min. Total Effective Plate-Supply Impedance: Up to 117 volts, 15 ohms; at 235 volts, 100 ohms.
36	RF Amplifier Triode	E1	Q	H	6.3	0.3	Class A Amplifier	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.
37	Detector* Amplifier Triode	E1	Q	H	6.3	0.3	Class A Amplifier	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.
38	Power Amplifier Pentode	E1	Q	H	6.3	0.3	Class A Amplifier	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.
39/44	Remote-Cutoff Pentode	E1	Q	H	6.3	0.3	Class A Amplifier	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.
40	Medium-Mu Triode	E1	Q	H	6.3	0.3	Class A Amplifier	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.
41	Power Amplifier Pentode	E1	Q	H	6.3	0.4	Class A Amplifier	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.
42	Power Amplifier Pentode	E1	Q	H	6.3	0.7	Class A Amplifier	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.
43	Power Amplifier Pentode	E1	Q	H	25.0	0.3	Class A Amplifier	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.
45	Power Amplifier Triode	E1	Q	F	2.5	1.5	Class A Amplifier	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.
45Z3	Half-Wave Rectifier	E1	Q	H	45.0	0.075	Class A Amplifier	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.
45Z5-GT	Half-Wave Rectifier	E1	Q	H	45.0	0.15	Class A Amplifier	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.
46	Detector* Amplifier Triode	E1	Q	F	2.5	1.75	Class A Amplifier	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.	100 -1.5 55 230 -3.0 90 1.7*	Grid-bias voltage is approximately adjusted to 0.1 milliamperes with no signal.

Discontinued types are shown in light face.







Type	Name	Tube Dimensions and Socket Connections	Cathode Type and Rating	Use	Plate Supply Vols.	Grid Bias Vols.	Screen Supply Vols.	Screen Control Vols.	Plate Current Ma.	AC Plate Resistance Ohms	Trans-conductance (half-plate) mhos	Amplification Factor	Load Imped. Ohms	Power Output Watts
83	Full-Wave Rectifier	D3	F 5.0 3.0	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 450 Max. Peak Inverse Vols., 1550	—	—	—	—	—	—	—	—	—
83-v	Full-Wave Rectifier	D12	H 5.0 2.0	With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 550 Max. Peak Inverse Vols., 1550	—	—	—	—	—	—	—	—	—
84/6Z4	Full-Wave Rectifier	D5	H 6.3 0.5	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 325 Max. Peak Inverse Vols., 1250	—	—	—	—	—	—	—	—	—
85	Triode-Beam Triode	D9	H 6.3 0.3	Class A Amplifier	135 160 160 250	—10.5 —20.0 —20.0 —31.0	—	—	3.7 8.0 17.0 32.0	11000 7500 3300 2600	750 1100 1425 1800	8.3 8.3 4.7 4.7	25000 20000 7000 5500	0.075 0.30 0.30 0.90
89	Triode-Grid Power Amplifier	D9	H 6.3 0.4	Class A Amplifier	160 250	—10.0 —25.0	100 230	1.5 5.0	9.5 32.0	104000 70000	1200 1800	10700 13600	10700 2500	0.33 3.40
V-99 X-99	Detector* Amplifier Triode	C4	D.C. F 3.3 0.053	Class A Amplifier	90	—4.5	—	—	2.5	15500	425	6.6	—	—
112-A	Detector* Amplifier Triode	D12	D.C. F 5.0 0.25	Class A Amplifier	90 180	—4.5 —13.5	—	—	5.0 7.7	5400 4700	1475 1800	8.5 8.5	—	—
117L7/ M7-GT	Rectifier-Beam Power Tube	C10	H 117 0.09	Amplifier Unit as Half-Wave Rectifier	105 Max. AC Plate Volts (RMS), 117 Max. DC Output Ma., 75 Max. Peak Inverse Vols., 350	—5.2 —	105 100	4.0 5.0	43.0 51.0	17000 16000	5300 7000	—	4000 3000	0.85 1.2
117N7-GT	Rectifier-Beam Power Tube	C10	H 117 0.09	Amplifier Unit as Half-Wave Rectifier	Max. AC Plate Volts (RMS), 117 Max. DC Output Ma., 75 Max. Peak Inverse Vols., 350	—	—	—	—	—	—	—	—	—
117P7-GT	Rectifier-Beam Power Tube	C10	H 117 0.09	Amplifier Unit as Half-Wave Rectifier	Max. AC Plate Volts (RMS), 117 Max. DC Output Ma., 75 Max. Peak Inverse Vols., 350	—	—	—	—	—	—	—	—	—

For other characteristics, refer to Type 117L7/M7-GT.

For other characteristics, refer to Type 117L7/M7-GT.

117Z3	Half-Wave Rectifier	B14	4CB	H 117 0.04	With Capacitive-Input Filter	Max. AC Plate Volts (RMS), 117 Max. Peak Inverse Vols., 330	—	—	—	—	—	—	—	—
117Z4-GT	Half-Wave Rectifier	C0	Q-5AA	H 117.0 0.04	With Capacitive-Input Filter	Max. AC Plate Volts (RMS), 117 Max. Peak Inverse Vols., 350	—	—	—	—	—	—	—	—
117Z6-GT	Rectifier-Doubler	C2b	0-7Q1	H 117 0.075	Double Voltage	Max. AC Volts per Plate (RMS), 117 Max. DC Output Ma., 60 Max. Peak Inverse Vols., 350	—	—	—	—	—	—	—	—
183/ 483	Power Amplifier Triode	D12	4D	F 5.0 1.25	Class A Amplifier	250 —60.0	—	—	30.0	1750	1700	3.0	5000	1.5
485	Detector Amplifier Triode	D5	5A4	H 3.0 1.25	Class A Amplifier	180 —9.0	—	—	5.8	8900	1400	12.5	—	—
875	Current Regulator	G1	—	F — —	Voltage Range	—	—	—	—	—	—	—	—	—
886	Current Regulator	G1	—	F — —	Voltage Range	—	—	—	—	—	—	—	—	—

Discontinued types are shown in light face.

## KEY TO TUBE DIMENSIONS

Symbol	Maximum Overall Length, in.	Maximum Overall Diameter, in.	Symbol	Maximum Overall Length, in.	Maximum Overall Diameter, in.	Symbol	Maximum Overall Length, in.	Maximum Overall Diameter, in.
A	1 1/4"	3/16"	C5	3 1/2"	1 1/8"	D4	4 1/2"	1 1/8"
A1	1 1/4"	3/16"	C6	3 1/2"	1 1/8"	D5	4 1/2"	1 1/8"
A1a	1 1/4"	3/16"	C9a	3 1/2"	1 1/8"	D7	4 1/2"	1 1/8"
A1b	1 1/4"	3/16"	C10	3 1/2"	1 1/8"	D8	4 1/2"	1 1/8"
B0	2 1/4"	3/8"	C10a	3 1/2"	1 1/8"	D8a	4 1/2"	1 1/8"
B0a	2 1/4"	3/8"	C10b	3 1/2"	1 1/8"	D8b	4 1/2"	1 1/8"
B0b	2 1/4"	3/8"	C11	3 1/2"	1 1/8"	D9	4 1/2"	1 1/8"
B0c	2 1/4"	3/8"	C11a	3 1/2"	1 1/8"	D9a	4 1/2"	1 1/8"
B1	2 1/4"	3/8"	D1	4 1/2"	1 1/8"	D10	4 1/2"	1 1/8"
B1a	2 1/4"	3/8"	D2	4 1/2"	1 1/8"	D12	4 1/2"	1 1/8"
B2	2 1/4"	3/8"	D2a	4 1/2"	1 1/8"	D12a	4 1/2"	1 1/8"
B3	2 1/4"	3/8"	D3	4 1/2"	1 1/8"	D12aa	4 1/2"	1 1/8"



- \* For Grid/Leak Detection—plate volts, 45; grid return to + filament; or to cathode
- Either ac or dc may be used on filament or heater, except as specifically noted. For use of dc on ac filament types, decrease stated grid volts by  $\frac{1}{2}$  (approx.) of filament voltage.
- > Supply voltage applied through 20000-ohm voltage-dropping resistor.
- > Mercury-Vapor Type.
- Grid # 1 is control grid. Grid # 2 is screen. Grid # 3 tied to cathode.
- Grid # 1 is control grid. Grids # 2 and # 3 tied to plate.
- Grids # 1 and # 2 connected together. Grid # 3 tied to plate.
- Grids # 3 and # 5 are screen. Grid # 4 is signal input control grid.
- Grids # 2 and # 4 are screen. Grid # 1 is signal input control grid.
- For grid of following tube.
- Both grids connected together, likewise, both plates.
- † Power output is for two tubes at stated plate-to-plate load.
- ‡ For two tubes.
- This diagram is like the one having the same designation without the prefix G, except that Pin No. 1 has no connection.
- Obtained preferably by using 20000-ohm voltage-dropping resistor in series with a 40-volt supply.
- This diagram is like the one having the same designation with the prefix G, except that base sleeve is connected to Pin No. 1.
- With tube mounted horizontally and pins No. 4 and No. 8 in a vertical plane (pin No. 4 on top), deflecting electrode No. 1 controls left-hand section of pattern, deflecting electrode No. 2 controls top right-hand section of pattern, deflecting electrode No. 3 controls bottom section of pattern.
- With separate excitation and triode unit grounded.
- Each unit.

- Value is for both units operating at the specified conditions.
- † This diagram is like the one having the same designation without the prefix G, except that Pin No. 1 is connected to internal shield.
- ‡ Grids # 2 and # 3 tied to plate.
- Both grids connected together, likewise both cathodes
- This diagram is like the one having the same designation without the prefix GT, except that the base sleeve is connected to Pin No. 1.
- Maximum.
- Megohms.
- 50000 ohms.
- Grids # 1 and # 2 tied together
- Applied through plate resistor of 150000 ohms
- For signal input control-grid (# 1), control-grid # 3 bias, -3 volts.
- Grids # 2 and # 4 are screen. Grid # 3 is signal-input control grid.
- Note 1: Types with octal bases have *Miniature Cap*, all others have *Small Cap*
- Note 2: Subscript 1 on class of amplifier service (as AB<sub>1</sub>) indicates that grid current does not flow during any part of input cycle.
- Subscript 2 on class of amplifier service (as AB<sub>2</sub>) indicates that grid current flows during some part of the input cycle.
- For television amplifier service.
- Cathode-hat resistor, 189 ohms.
- Superseded by 10-V. See Power and Gas Tubes Booklet PG-101A.

## LEGEND FOR BASE AND ENVELOPE CONNECTION DIAGRAMS

Bottom Views

### KEY TO TERMINAL DESIGNATIONS

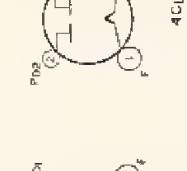
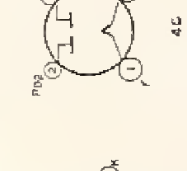
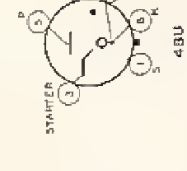
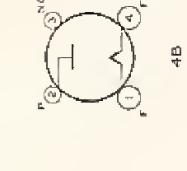
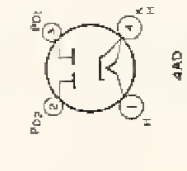
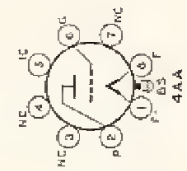
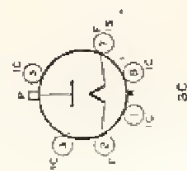
Subscripts B, D, HP, HX, P, T, and TR indicate, respectively, beam unit, diode unit, heptode unit, hexode unit, pentode unit, triode unit, and tetrode unit in multi-unit types.

BC = Base Sleeve  
BS = Base Shell  
DJ = Deflecting Electrode  
ES = External Shield  
F = Filament  
FM = Filament Mid-Tap

G = Grid  
H = Heater  
H<sub>L</sub> = Heater Tap for Panel Lamp  
H<sub>M</sub> = Heater Mid-Tap  
H<sub>S</sub> = Heater Shield

IC = Internal Connection-Do Not Use  
IS = Internal Shield  
K = Cathode  
NC = No Connection  
P = Plate (Anode)

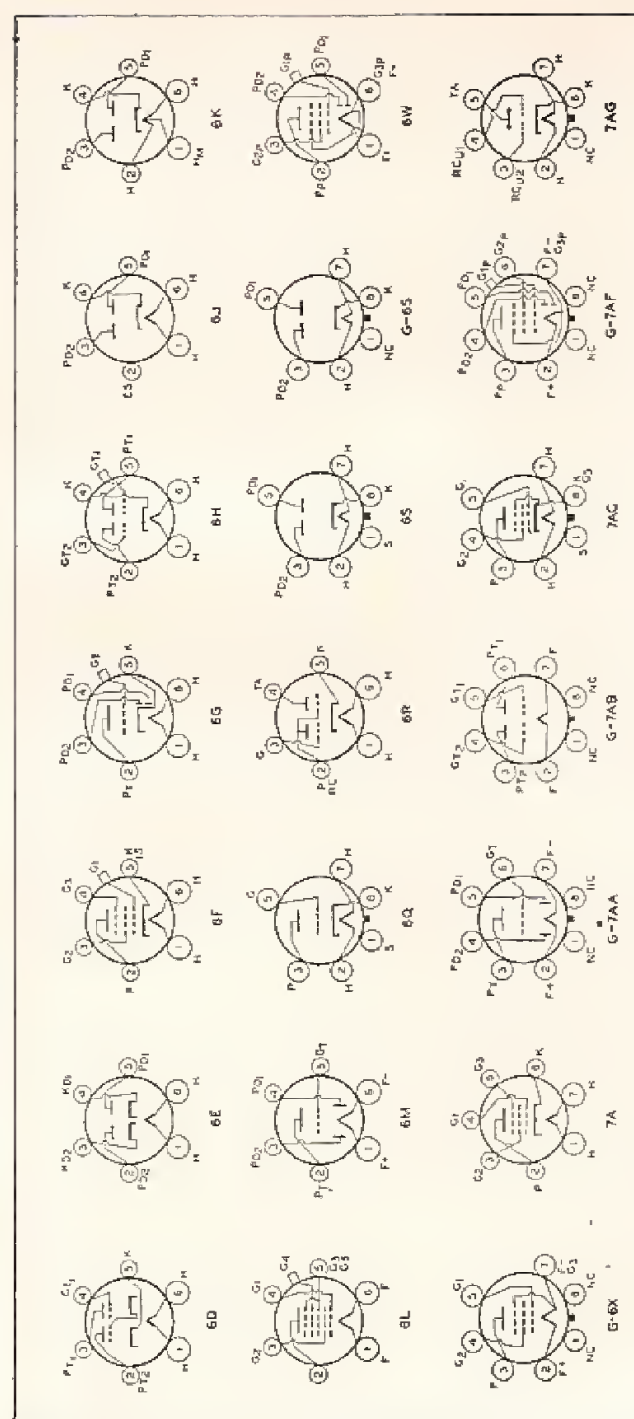
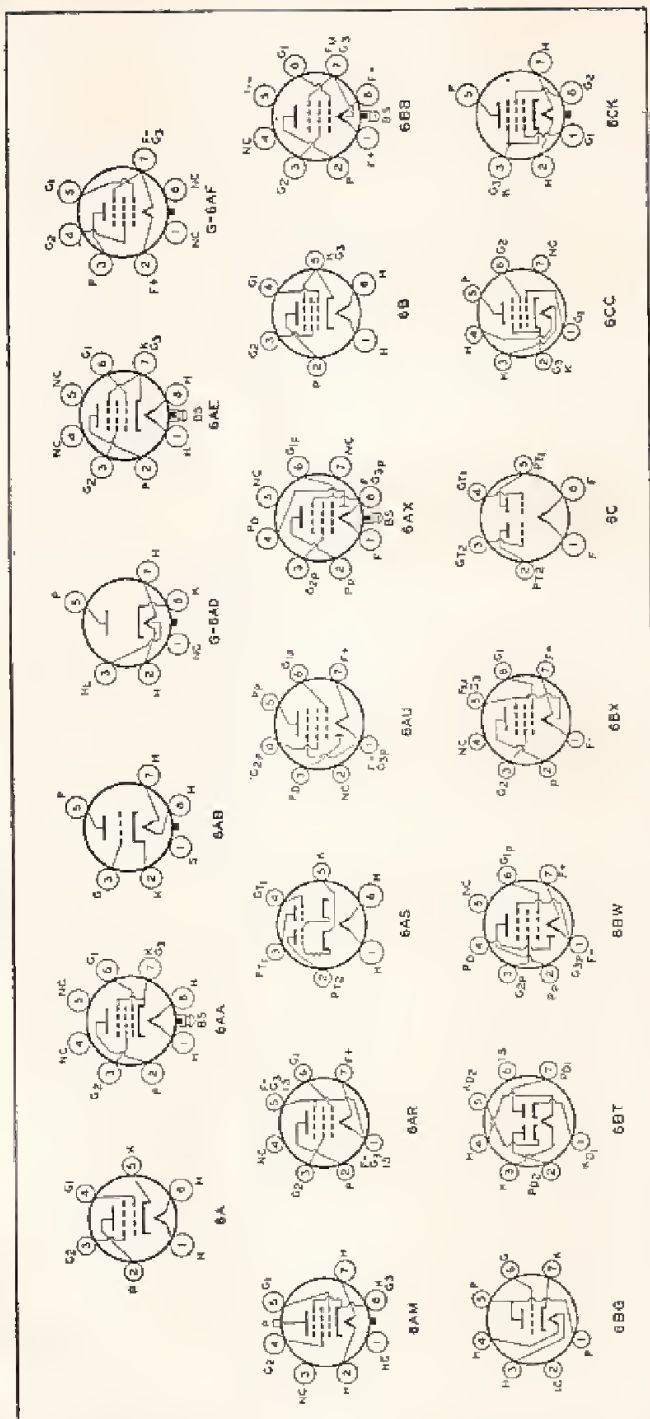
RC = Ray-Control Electrode  
S = Shell  
TA = Target  
U = Unit  
• = Gas-Type Tube



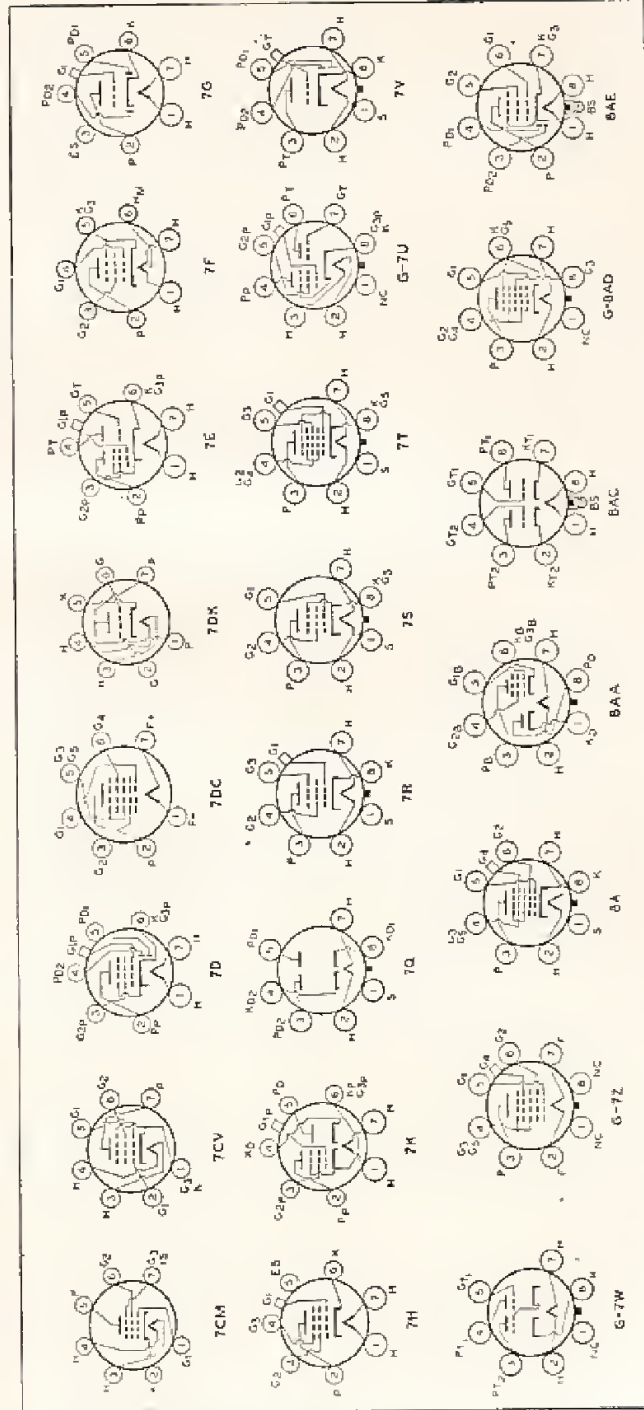
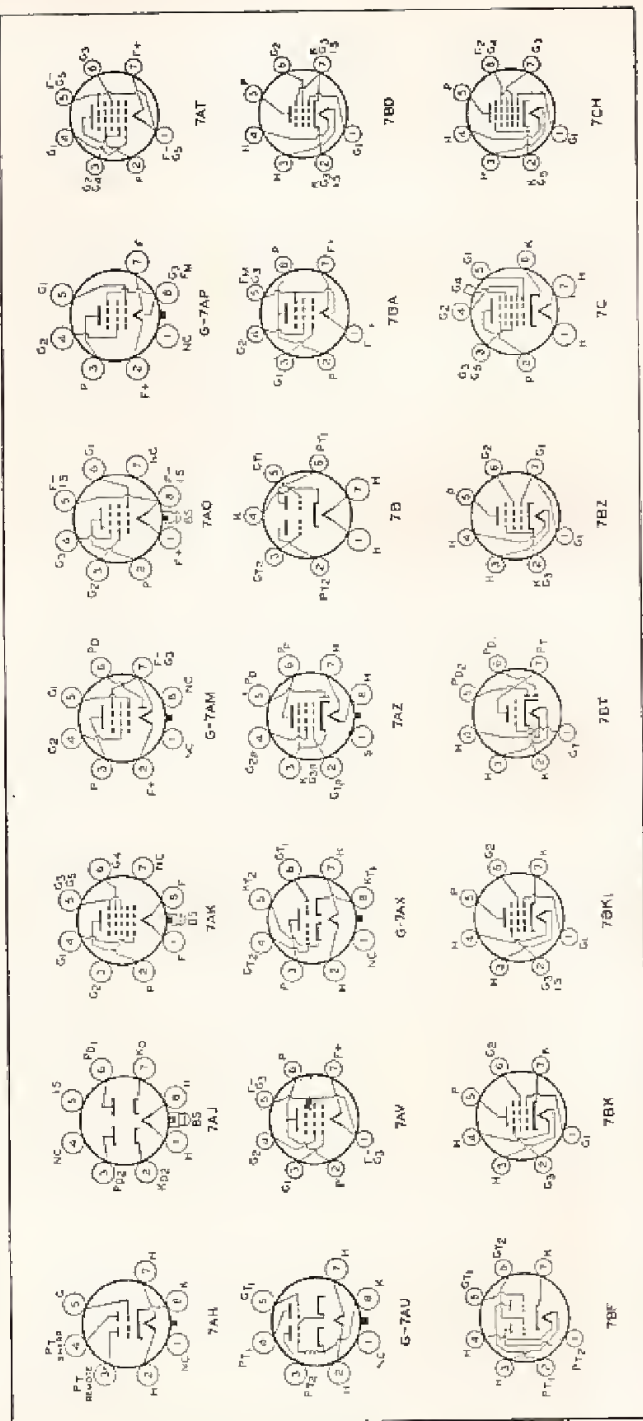








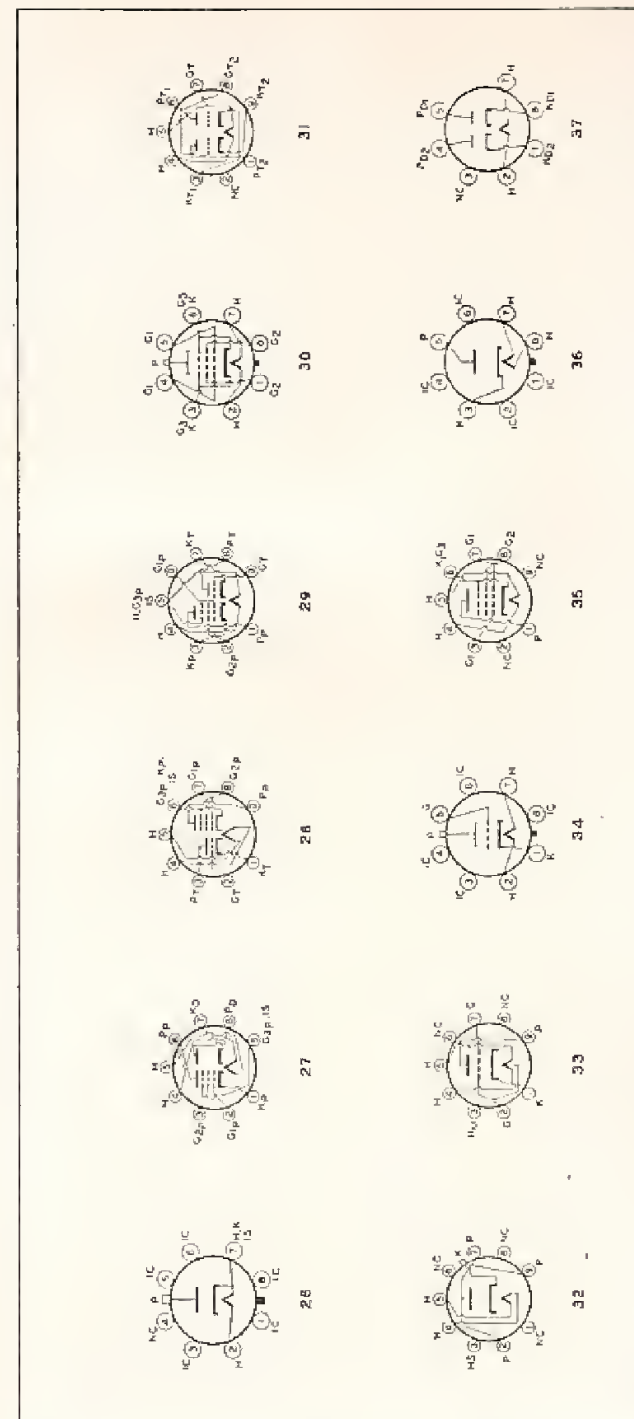
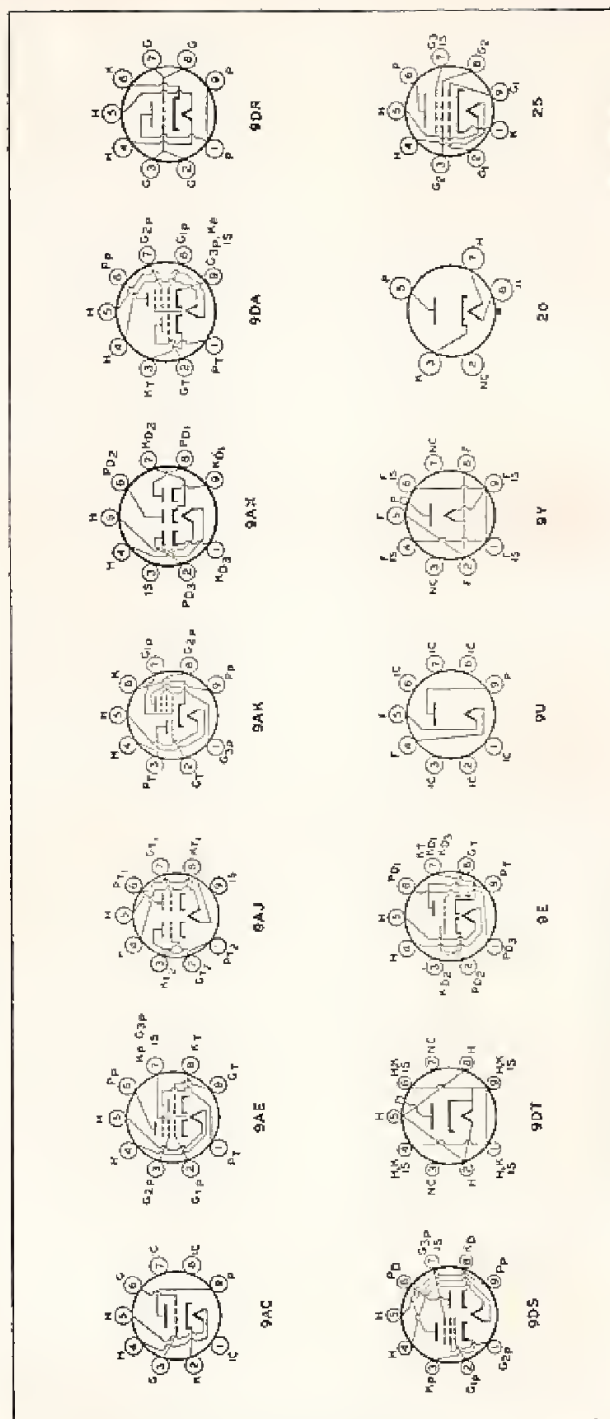














# RCA KINESCOPE CHARACTERISTICS CHART

Data for these types continued on next page.

Type	Envelope	Faceplate <sup>b</sup>	External Coating		Facing Method	Deflection Method	Int. Tip Magnet	Apert. Deflection Angle Degree	Maximum Distances Inches			Neck Length Inches
			Max. $\mu$	Min. $\mu$					Orad. Length	Circle Diameter	Width	
Black-and-White Types												
3KP4	Glass Round	Clear	None	None	E	E-O	None	None	11 $\frac{3}{4}$	3 $\frac{1}{4}$	—	—
5TP4*	Glass Round	Clear†	500	100	E	M	None	50	12 $\frac{1}{4}$	5 $\frac{1}{4}$	—	7 $\frac{1}{2}$
7DP4	Glass Round	Clear	1500	400	E	M	Single	50	14 $\frac{3}{8}$	7 $\frac{3}{8}$	—	8 $\frac{3}{8}$
7JP4	Glass Round	Clear	None	None	E	E-O	None	None	14 $\frac{3}{8}$	7 $\frac{1}{8}$	—	—
9AP4	Glass Round	Clear	None	None	E	M	None	40	21 $\frac{3}{4}$	9 $\frac{1}{4}$	—	10
10BP4	Glass Round	Filterglass	2500	500	M	M	Single	52	18	10 $\frac{5}{8}$	—	8 $\frac{5}{8}$
10FP4-A	Glass Round	Filterglass†	2300	500	M	M	None	50	18	10 $\frac{5}{8}$	—	8 $\frac{5}{8}$
12AP4	Glass Round	Clear	None	None	E	M	None	40	23 $\frac{5}{8}$	12 $\frac{1}{8}$	—	9 $\frac{5}{8}$
12KP4-A	Glass Round	Filterglass†	2500	500	M	M	None	54	18	12 $\frac{1}{8}$	—	7 $\frac{1}{8}$
12LP4	Glass Round	Filterglass	Same as 12LP4-A, except has clear glass faceplate.									
12LP4-A	Glass Round	Filterglass	2500	750	M	M	Single	57	19 $\frac{1}{8}$	12 $\frac{1}{8}$	—	8 $\frac{1}{4}$
14EP4/14CP4	Glass Rectangular	Filterglass	2000	750	M	M	Single	65	16 $\frac{7}{8}$	13 $\frac{3}{8}$	12 $\frac{1}{8}$	9 $\frac{5}{8}$
14HP4	Glass Rectangular	Filterglass	2000	750	E	M	Single	65	17 $\frac{5}{8}$	13 $\frac{3}{8}$	12 $\frac{1}{8}$	9 $\frac{5}{8}$
16AP4	Metal Round	Filterglass	Same as 16AP4-A, except has clear glass faceplate.									
16AP4-A	Metal Round	Filterglass	None	None	M	M	Single	53	22 $\frac{1}{8}$	16	—	7 $\frac{3}{8}$
16DP4-A	Glass Round	Filterglass	None	None	M	M	Single	50	21	16	—	7 $\frac{3}{8}$
16GP4	Glass Round	Filterglass	Same as 16GP4-B, except has Filterglass faceplate.									
16GP4-A	Glass Round	Filterglass	Same as 16GP4-B, except has clear glass faceplate.									
16GP4-B	Metal Round	Fronted Filterglass	None	None	M	M	Single	70	17 $\frac{1}{8}$	16	—	6 $\frac{3}{8}$
16GP4-C	Metal Round	Fronted Filterglass	Same as 16GP4-B, except has frosted clear glass faceplate.									

Minimum Screen Size Inches	High Voltage Turned	Base lug	Maximum Ratings				Typical Operating Conditions				Grid No. 1 Value	Type
			Final High-Voltage Electrode (2L10P*) Vols.	Facing Electrode Vols.	Grid No. 2 Vols.	Grid No. 1 Vols.	Final High-Voltage Electrode (2L10P*) Vols.	Facing Electrode Vols.	Grid No. 2 Vols.			
Black-and-White Types												
2 3/4" Diam.	Base Pin	A	2500	1000	∞	200	2000	320 to 600	∞	-38 to -90	3KP4	16CP4-A
4 1/4" Diam.	Small Cavity Cup	B	27000	6000	350	150	27000	4320 to 5400	200	-42 to -98	5TP4*	
5" Diam.	Small Cavity Cup	B	8000	2400	410	125	6000	1200 to 1650	250	-27 to -63	7DP4	
5" Diam.	Base Pin	C	6000	2800	∞	200	6000	1620 to 2400	∞	-77 to -168	7JP4	
7 1/4" Diam.	Medium Cup	D	7000	2000	300	125	7000	1190 to 1790	250	-20 to -60	9DP4	
Ratings and typical operating conditions are same as for type 10BP4-A.												
9 1/4" Diam.	Small Cavity Cup	E	12000	—	410	125	8000 to 12000	—	250	-27 to -63	10BP4-A	12KP4-A
9 1/4" Diam.	Small Cavity Cup	E	12000	—	410	125	8000 to 12000	—	250	-27 to -63	10FP4-A	
10 1/4" Diam.	Medium Cup	D	7000	2000	300	125	7000	1190 to 1790	250	-20 to -60	12AP4	
11 1/4" Diam.	Small Cavity Cup	E	12000	—	410	125	9000 to 12000	—	250	-27 to -63	12KP4-A	
Ratings and typical operating conditions are same as for type 12LP4-A.												
11" Diam.	Small Cavity Cup	E	12000	—	410	125	9000 to 12000	—	250	-27 to -63	12LP4	14CP4-A
11 1/8" x 8 5/8"	Small Cavity Cup	E	14000	—	410	125	10000 to 14000	—	300	-33 to -77	14EP4/14CP4	
11 3/4" x 8 1/2"	Small Cavity Cup	H	14000	+500 -500	500	125	12000	-50 to +265	300	-33 to -77	14HP4	
		14000	-500	500	125	14000	-55 to +310	300	-33 to -77	16AP4		
Ratings and typical operating conditions are same as for type 16AP4-A.												
14 3/8" Diam.	Metal-Shell Lip	F	14000	—	410	125	9000 to 13000	—	300	-33 to -77	16AP4-A	16DP4-A
14 1/2" Diam.	Small Cavity Cup	F	15000	—	410	125	12000 to 15000	—	250	-33 to -77	16GP4	
Ratings and typical operating conditions are same as for type 16GP4-B.												
Ratings and typical operating conditions are same as for type 16GP4-B.												
14 3/8" Diam.	Metal-Shell Lip	F	14000	—	410	125	12000 to 14000	—	300	-33 to -77	16GP4-B	16GP4-C
Ratings and typical operating conditions are same as for type 16GP4-B.												

Data for these types continued from preceding pages.

Data for these types continued on next page.

RCA Type	Envelope	Facing <sup>6</sup>	Extruded Coating		Facing Method	Inc. Top Magnet	Agmt. Outlines Angles	Maximum Dimensions Incht			Net Length Incht
			Min. In.	Max. In.				Overall Length	Overall Width	Overall Height	
Black-and-White Types											
16LP4-A	Glass Round	Filterglass	2000	750	M	M	52	22 5/8	16	—	7 3/4
16RP4- 16KP4	Glass Rectangular	Filterglass	2000	750	M	M	65	19 1/4	16 5/8	14 1/8	7 3/4
Same as 16RP4/16KP4, except has aluminized screen.											
16TP4-A	Glass Rectangular	Filterglass	2000	750	M	M	65	18 1/2	16 5/8	14 1/8	6 3/4
16WP4-A	Glass Round	Filterglass	1500	750	M	M	70	18 1/8	15	—	7 1/8
17AP4	Glass Rectangular	Filterglass	1500	750	E	M	85	16	16 5/8	15 1/8	6 1/2
17BP4-A	Glass Rectangular	Filterglass	1500	750	M	M	65	19 5/8	16 5/8	15 1/8	7 1/2
17BP4-B	Same as 17BP4-A, except has aluminized screen.										
17CP4	Metal Rectangular	Frosted Filterglass	None	None	M	M	56	19	17	16 1/8	7 3/8
17CP4-A	Same as 17CP4, except has Filterglass facplate.										
17GP4	Metal Rectangular	Frosted Filterglass	None	None	E	M	66	19 5/8	17	16 5/8	7 3/8
17HP4/ 17SP4	Glass Rectangular	Filterglass	1500	750	E	M	65	19 5/8	16 5/8	15 1/8	7 1/4
17HP4-B	Glass Rectangular	Filterglass†	1500	750	E	M	65	19 5/8	16 5/8	15 1/8	7 1/4
17JP4	Glass Rectangular	Filterglass	750	500	M	M	65	19 5/8	16 5/8	15 1/8	7 1/4
17LP4/ 17VP4	Glass Rectangular	Filterglass**	1500	750	E	M	65	19 5/8	16 5/8	15 1/8	7 1/4
17LP4-A	Glass Rectangular	Filterglass†**	1500	750	E	M	65	19 5/8	16 5/8	15 1/8	7 1/4
17OP4	Glass Rectangular	Filterglass**	1500	750	M	M	65	19 5/8	16 5/8	15 1/8	7 1/4
17TP4	Metal Rectangular	Frosted Filterglass	None	None	E	M	66	19 5/8	17	16 5/8	7 3/4

Minimum Screen Size Incht	High Voltage Terminal	Maximum Ratings				Typical Operating Conditions				Type
		Line High Voltage (0-1000 VDC)	Rectifying (0-1000 VDC)	Grid No. 2 Vols	Grid No. 1 Vols	Final High Voltage (0-1000 VDC)	Rectifying (0-1000 VDC)	Grid No. 2 Vols	Grid No. 1 Vols	
Black-and-White Types										
14 1/2" Diam.	Small Cavity Cap	E	14000	—	410	125	12000 to 14000	—	300	16LP4-A
13 1/2" x 10 1/4"	Small Cavity Cap	E	16000	—	410	125	12000 to 16000	—	300	16RP4/16KP4
Ratings and typical operating conditions are same as for type 16RP4/16KP4.										
13 1/2" x 10 1/4"	Small Cavity Cap	E	14000	—	410	125	12000 to 14000	—	300	16RP4-A/16KP4-A
14 1/2" Diam.	Small Cavity Cap	E	16000	—	410	125	12000 to 16000	—	250	16WP4-A
14 1/2" x 10 1/4"	Small Cavity Cap	H	16000	+1000	500	125	14000	—55 to +310	300	17AP4
14 1/2" x 10 1/4"	Small Cavity Cap	E	16000	—500*	—	—	16000	—65 to +350	300	17BP4-A
14 1/2" x 10 1/4"	Small Cavity Cap	E	16000	—	410	125	12000 to 16000	—	300	17BP4-B
Ratings and typical operating conditions are same as for type 17BP4-A.										
14 1/2" x 10 1/4"	Metal-Shell Lip	F	16000	—	410	125	12000 to 16000	—	300	17CP4
Ratings and typical operating conditions are same as for type 17CP4.										
14 1/2" x 10 1/4"	Metal-Shell Lip	G	16000	5000	500	125	12000	2010 to 2760	260	17CE4-A
14 1/2" x 10 1/4"	Small Cavity Cap	H	16000	+1000	500	125	14000	2380 to 3220	300	17GP4
14 1/2" x 10 1/4"	Small Cavity Cap	H	16000	—500*	—	—	16000	—55 to +300	300	17HP4/17RP4
14 1/2" x 10 1/4"	Small Cavity Cap	H	16000	+1000	500	125	14000	—65 to +350	300	17HP4-B
14 1/2" x 10 1/4"	Small Cavity Cap	E	18000	—500*	—	—	16000	—55 to +300	300	17JP4
14 1/2" x 10 1/4"	Small Cavity Cap	E	16000	+1000	500	125	14000	—65 to +350	300	17LP4/17VP4
14 1/2" x 10 1/4"	Small Cavity Cap	H	16000	—500*	—	—	16000	—55 to +300	300	17LP4-A
14 1/2" x 10 1/4"	Small Cavity Cap	H	16000	+1000	500	125	14000	—65 to +350	300	17QP4
14 1/2" x 10 1/4"	Small Cavity Cap	J	16000	—	410	125	12000 to 16000	—	300	17TP4
14 1/2" x 10 1/4"	Metal-Shell Lip	G	16000	+1000	500	125	14000	—55 to +300	300	17TP4

Data for these types continued from preceding pages.



Data for these types continued on next page.

Type	Envelope	Faceplate <sup>a</sup>	External Connections		Focusing Method	Deflection Method	Ion-Trap Magnet	Apert. Definition Angle's Onset	Maximum Dimensions Incht.			Web Height Units
			Wt. gms.	Mil. mil.					Overall Length	Recess Diameter	Web Width	
<b>Black-and-White Types</b>												
Since as 19AP4-B, except has clear glass faceplate.												
19AP4												
19AP4-A												
19AP4-B	Metl Round	Frosted Filterglass	None	None	M	M	Single	65	22	18½	—	7½
19AP4-D												
20CP4	Glass Rectangular	Filterglass	None	None	M	M	Single	66	21½	20½	18½	15¾
20DP4-A/ 20CP4-A	Glass Rectangular	Filterglass	750	500	M	M	Single	66	21½	20½	18½	15¾
20DP4-C/ 20CP4-D	Glass Rectangular	Filterglass†	750	500	M	M	Single	66	21½	20½	18½	15¾
20MP4	Glass Rectangular	Filterglass	750	500	E	M	Single	66	22½	20½	18½	15¾
21AP4-A	Glass Rectangular	Filterglass†**	750	500	M	M	Single	85*	20½	21½	20½	16½
21ALP4-A	Glass Rectangular	Filterglass†	750	500	E	M	Single	85*	20½	21½	20½	16½
21ALP4-B	Glass Rectangular	Filterglass†	750	500	E	M	Single	85*	20½	21½	20½	16½
21AMP4-A	Glass Rectangular	Filterglass†	750	500	M	M	Single	85*	20½	21½	20½	16½
21AP4	Metl Rectangular	Frosted Filterglass	None	None	M	M	Single	66	22½	21	19½	15¾
21ATP4	Glass Rectangular	Filterglass†	1500	1200	E	M	Single	85*	20½	21½	20½	16½
21AVP4/ 21AUP4	Glass Rectangular	Filterglass	1500	1200	E	M	Single	67**	23½	21½	20½	16½
21AVP4-A/ 21AUP4-A	Glass Rectangular	Filterglass†	1500	1200	E	M	Single	67**	23½	21½	20½	16½
21AWP4	Glass Rectangular	Filterglass†	1500	1200	M	M	Single	67**	23½	21½	20½	16½
21EP4												
21EP4-A	Glass Rectangular	Filterglass**	750	500	M	M	Single	65	21½	20½	18½	15¾
21EP4-B												

\* Same as 21EP4-A, except has no external conductive coating.

\*\* Same as 21EP4-A, except has aluminumized screen.

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Minimum Section Size Index	101- VSS410 Terminal	Base- lag	Maximum Ratings				Typical Operating Conditions				Type
			75W Maximum Power (ULTRON®) Value	Forward Voltage V <sub>FD</sub>	20V <sub>DC</sub> Max. V <sub>DS</sub> Value	Gate Time V <sub>GS</sub>	HF <sub>max</sub> Power (ULTRON®) Value	Forward Electrode Yield Y <sub>FE</sub>	Gate Max. J Y <sub>GE</sub>	Old No. 1 Value	
<b>Black-and-White Types</b>											
Ratings and typical operating conditions are same as for type 19AP4-B.											
Ratings and typical operating conditions are same as for type 19AP4-B.											
Ratings and typical operating conditions are same as for type 19AP4-B.											
17 1/2" Diam.	Metal-Shell Lip	F	16000	—	410	125	12000 to 19000	—	300	—33 to -77	19AP4-A
17 x 12 1/2"	Small Cavity Cap	F	16000	—	410	125	14000 to 18000	—	300	—33 to -77	19AP4-B
17 x 12 1/2"	Small Cavity Cap	F	18000	—	410	125	14000 to 18000	—	300	—33 to -77	20CP4-A
17 x 12 1/2"	Small Cavity Cap	F	18000	—	410	125	14000 to 18000	—	300	—33 to -77	20CP4-A/ 20CP4-C/ 20CP4-D
17 x 12 1/2"	Small Cavity Cap	H	16000	+1000 -500A	500	125	14000	—55 to +300 -65 to +350	300	—33 to -77	20MP4-A
19 1/2" x 15	Small Cavity Cap	F	20000	—	500	125	13000 to 19000	—	300	—28 to -72	21ACP4-A
19 1/2" x 15	Small Cavity Cap	H	18000	+1000 -500A	500	125	16000	—65 to +350 -75 to +400	300	—33 to -77	21ALP4-A
19 1/2" x 15	Small Cavity Cap	H	20000	+1000 -500A	500	125	16000	—65 to +350 -75 to +400	300	—33 to -77	21ALP4-B
19 1/2" x 15	Small Cavity Cap	F	18000	—	500	125	14000 to 18000	—	300	—33 to -77	21AMP4-A
18 1/2" x 13 1/2"	Metal-Shell Lip	F	18000	—	410	125	14000 to 18000	—	300	—33 to -77	21AP4-A
Ratings and typical operating conditions are same as for type 21ALP4-A.											
19 1/2" x 15	Small Cavity Cap	H	18000	1000 -500A	500	125	14000	—55 to +300 -72 to +350	300	—28 to -72	21AVP4-A/ 21AUP4-A
19 1/2" x 15	Small Cavity Cap	H	18000	1000 -500A	500	125	14000	—55 to +300 -75 to +400	300	—33 to -77	21AVP4-A/ 21AUP4-A
19 1/2" x 15	Small Cavity Cap	F	18000	—	500	125	14000 to 18000	—	300	—33 to -77	21AWP4-A
Ratings and typical operating conditions are same as for type 21EP4-A.											
19 1/2" x 13 1/2"	Small Cavity Cap	J	18000	—	500	125	14000 to 18000	—	300	—33 to -77	21EP4-A
Ratings and typical operating conditions are same as for type 21EP4-A.											

Data for these types continued from preceding pages.

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Data for these types continued on next page.

Type	Envelope	Screen†	External Conductive Coating		Focusing Method	Deflection Method	Ion-Trap Magnet	Apert. Deflection Angle, Degrees	Maximum Dimensions Inches			Neck Length Inches	
			M.C. pad	M.C. pad					Overall Length	Envelope Diameter	Width		
Black-and-White Types													
21FP4-A	Glass Rectangular	Filterglass**	750	500	E	M	Single	65	23 1/2	21 1/2	20 3/4	15 3/4	7 1/2
Same as 21FP4-A, except has aluminized screen.													
21FP4-C													
21MP4	Metal Rectangular	Frosted Filterglass	None	None	E	M	Single	66	22 3/8	21	19 7/8	15 7/8	7 1/2
21YP4	Glass Rectangular	Filterglass	750	500	E	M	Single	65	23 1/2	21 1/2	20 3/4	15 3/4	7 1/2
Same as 21YP4, except has aluminized screen.													
21YP4-A	Glass Rectangular	Filterglass	750	500	M	M	Single	65	23 1/2	21 1/2	20 3/4	15 3/4	7 1/2
21ZP4-A													
21ZP4-B													
Same as 21ZP4-B, except has aluminized screen.													
24CP4-A	Glass Rectangular	Filterglass	750	500	M	M	Single	85	21 1/2	24 1/2	22 3/8	19	7 1/2
24DP4-A	Glass Rectangular	Filterglass†	500	750	E	M	Single	85	21 1/2	24 1/2	22 3/8	18 3/4	7 1/2
24YP4	Glass Rectangular	Filterglass†	1500	1200	E	M	Single	85	21 1/2	24 1/2	22 3/8	18 3/4	7 1/2
27MP4	Metal Rectangular	Frosted Filterglass†	None	None	M	M	Single	85	22 3/8	27 1/2	25 3/8	20 1/4	7 1/2
Color Types													
15GP22**	Glass Round	Clear	3000	1500	E	M	None	45	26 1/2	14 3/8	—	—	10 3/4
21AXP22	Metal Round	Filterglass†	None	None	E	M	None	70	25 3/8	20 1/4	—	—	9 1/2

† Positive bus value = 0 volts; positive peak value.  
 ‡ Electrostatic.  
 Note: All kineoscopes shown have 10/6 amp. cathode heater, 6.3V/1A and 12AP4 pilot lamp, 2.5 volt/14 ampere heaters.  
 Light face = Discontinuous types.  
 † Spherical, unless otherwise specified.  
 ‡ At faceplate.  
 † Dullies aluminized screen.  
 ‡ Cylindrical faceplate.  
 ‡ Grid No. 2 connected to final high-voltage electrode within tube.  
 ‡ Projection type.  
 ‡ Corresponding diagonal deflection angle is 90°.  
 ‡ At upper lip terminal.  
 ‡ This type has a fast, aluminized, filterglass screen plate.  
 ‡ Diagonal deflection angle is 72°.

Data for these types continued from preceding pages.

Minimum Screen Size (inches)	High-Voltage Terminal	Rating	Minimum Ratings			Typical Operating Conditions			Type	
			Final High-Voltage (0.100%)	Final High-Voltage (0.100%)	Grid No. 2 (V)	Final High-Voltage (0.100%)	Final High-Voltage (0.100%)	Grid No. 2 (V)		
<b>Black-and-White Types</b>										
19 1/2 x 13 1/4	Small Cavity Cap	H	18000	+1000 -500*	500	125	14000 16000	-55 to +500 -65 to +350	300 300	21FP4-A
Ratings and typical operating conditions are same as for type 21FP4-A.										
18 3/4 x 13 1/4	Metal-Shell Lip	C	16000	+1000 -500*	500	125	14000 16000	-55 to +300 -65 to +350	300 300	21MP4
19 1/2 x 14 3/4	Small Cavity Cap	H	18000	+1000 -500*	500	125	16000 18000	-65 to +350 -70 to +395	300 300	21YP4
Ratings and typical operating conditions are the same as for type 21YP4.										
19 1/2 x 14 3/4	Small Cavity Cap	J	18000	—	500	125	16000 to 18000	—	300	21YP4-A
Ratings and typical operating conditions are the same as for type 21ZP4-A.										
21 1/2 x 16 1/4	Small Cavity Cap	J	20000	—	500	125	16000 to 18000	—	300	21ZP4-B
21 1/2 x 16 1/4	Small Cavity Cap	E	20000	+1500 -500*	500	125	16000 18000	-65 to +350 -75 to +400	300 400	24CP4-A 24DP4-A
Ratings and typical operating conditions are same as for type 24DP4-A.										
23 1/2 x 18 1/4	Metal-Shell Lip	F	18000	—	500	125	16000 to 18000	—	300	24YP4 27MP4

### Color Types

11 1/2 x 8 3/8	Metal Flange	K	20000	5000	500*	200*	For additional data, refer to technical bulletin available on request.				15GP22
19 1/2 x 15 1/4	Metal Flange	L	25000	6000	800*	400*	For additional data, refer to technical bulletin available on request.				21AXP22

\* ULTOR is defined as the electrode, or the electrode trade in combination with one or more additional electrodes connected within the tube to it, which is applied to the high-voltage beam prior to its collection.

O Deflection Factors (volts deflection for typical operating conditions shown):

Type	D.I.A.D. (gross mean)	D.I.A.D. (mean base)
21FP4	100 to 130	76 to 104
21MP4	166 to 116	150 to 194

Each gun.

Positive bias value = 0 volts; positive peak value = 2 volts.

\* For visual extinction of undeflected focused spot. For values for visual extinction of focused spot, the values for 0 volts are negative than the indicated values.

For base diagram, refer to diagram F.

† Positive bus value = 0 volts; positive peak value.  
 ‡ Electrostatic.  
 Note: All kineoscopes shown have 10/6 amp. cathode heater, 6.3V/1A and 12AP4 pilot lamp, 2.5 volt/14 ampere heaters.  
 Light face = Discontinuous types.  
 † Spherical, unless otherwise specified.  
 ‡ At faceplate.  
 ‡ Dullies aluminized screen.  
 ‡ Cylindrical faceplate.  
 ‡ Grid No. 2 connected to final high-voltage electrode within tube.  
 ‡ Projection type.  
 ‡ Corresponding diagonal deflection angle is 90°.  
 ‡ At upper lip terminal.  
 ‡ This type has a fast, aluminized, filterglass screen plate.  
 ‡ Diagonal deflection angle is 72°.



# RCA QUICK-SELECTION GUIDE

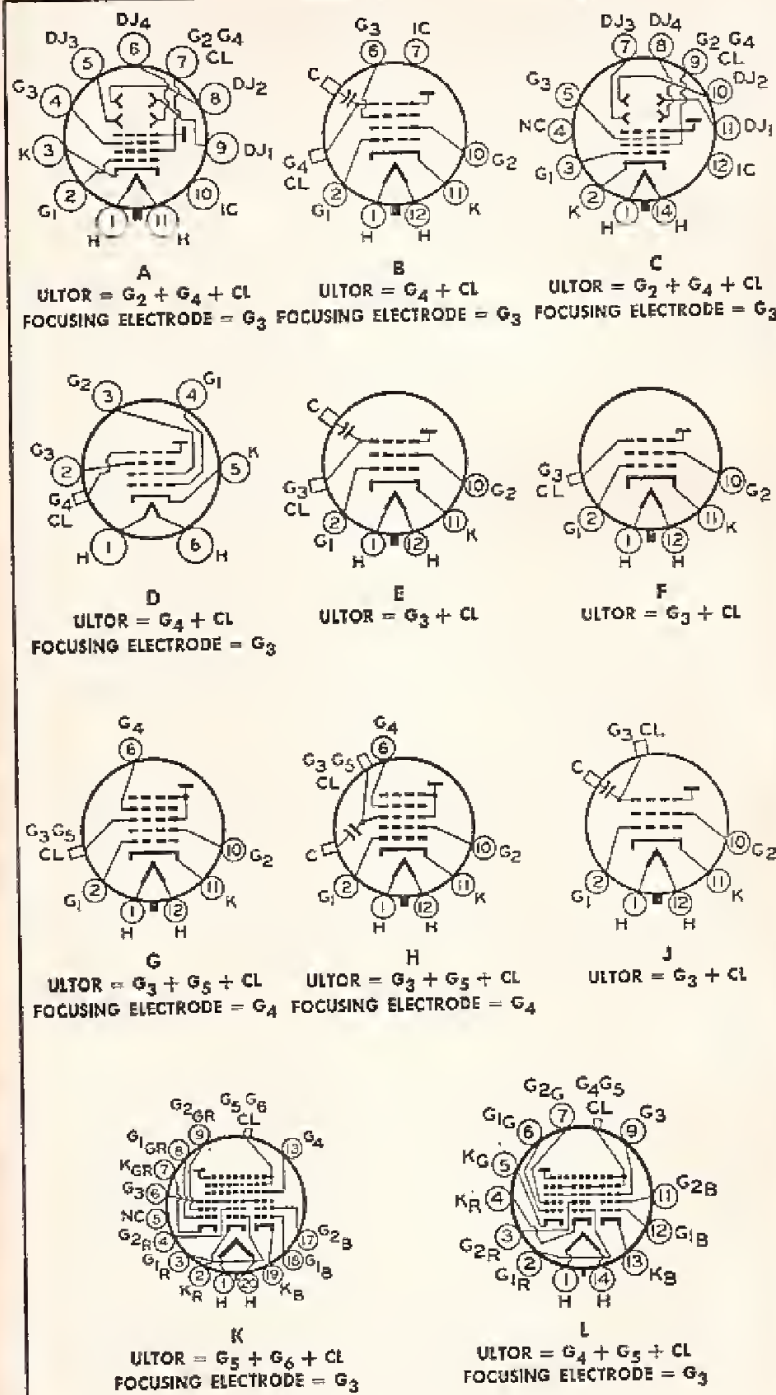
## Power, Cathode-Ray, Photo-, and Special Tubes for Radio and Industry

### VACUUM POWER TUBES

TYPE	CATH- ODE VOLTS	MAXIMUM DIMEN- SIONS INCHES		AMPLIFI- CATION FACTOR	MAX. PLATE RATINGS*	
		Length	Diam.		DC Volts	Dissi- pation Watts
TRIODES (AIR-COOLED)						
3C33	12.6	3 1/8	2 3/8	11b	±2000	15
10-Y	7.5	5 3/8	2 1/8	8	450	15
800	7.5	6 3/8	2 1/8	15	1250	35
801-A	7.5	5 3/8	2 1/8	8	600	20
805	10	8 1/2	2 5/8	variable	1500	125
806	5	10	3 1/8	12.6	3300†	225†
808	7.5	6 1/8	2 1/8	47	2000†	75†
809	6.3	6 3/8	2 7/8	50	1000†	30†
810	10	8 3/4	2 1/4*	36	2500†	175†
811-A	6.3	6 7/8	2 7/8	160	1500†	65†
812-A	6.3	6 3/8	2 7/8	29	1500†	65†
826	7.5	3 1/4	2 3/8	31	1000†	55†
830-B	10	6 1/8	2 1/8	25	1000	60
833-A	10	8 1/8	4 3/8	35	3300†	350†
834	7.5	6 7/8	2 1/8	10.5	1250	50†
838	10	7 7/8	2 7/8	variable	1250	100
841	7.5	5 3/8	2 1/8	30	450	15
842	7.5	5 3/8	2 7/8	3	425	12
845	10	7 7/8	2 5/8	5.3	1250	100
849	11	14 3/8	4 7/8	19	2500	400
851	11	17 3/8	6 1/8	20.5	2500	750
1623	6.3	6 3/8	2 7/8	20	1000†	30†
1626	12.6	4 1/8	1 7/8	5	250	5
5556	4.5	4 1/2	1 5/8	8.5	350	10
8000	10	8 3/4	2 1/4*	16.5	2500†	175†
8003	10	8 1/2	2 3/8	12	1350	100
8005	10	6 1/8	2 7/8	20	1500†	85†
8012-A	6.3	3 1/8	1 7/8*	18	1000	40
8025-A	6.3	4 1/8	1 3/4*	18	1000†	30†

†For Intermittent Commercial and Amateur Service.

\*Absolute values for Continuous Commercial Service, unless otherwise specified. b Per Unit. \*Maximum Radius.



# RCA QUICK-SELECTION GUIDE

## VACUUM POWER TUBES (cont'd)

TYPE	CATH- ODE VOLTS	MAXIMUM DIMEN- SIONS INCHES	AMPLIFI- CATION FACTOR	MAX. PLATE RATINGS*	DC Volts	Dissi- pation Watts
		Length	Diam.			
<b>TRIODES (WATER-COOLED)</b>						
9C21	19.5	24 1/2	9 1/2	40	17000	40000
207	22	20 1/4	6 1/2*	20	15000	10000
862-A	33	60 3/8	10*	45	20000	100000
880	12.6	11 3/8	7	20	10500	20000
889-A	11	10 1/4	3 5/8	21	8500	5000
891	11#	20 7/8	6 1/2*	8.5	12000	6000
892	11#	20 7/8	6 1/2*	50	15000	10000
893-A	20#	26 3/4	6 3/8*	34.5	20000	20000
893-A	33#	60 3/8	10*	45	20000	100000
5770	11	24 1/2	9 1/2	41	17000	50000
5771	7.5	11 1/8	7	20	12500	22500
5831	6	38 3/4	9 3/2	30	16000	150000
6383	6.3	4 3/2	1 3/4	27	1500	600

## TRIODES (FORCED-AIR-COOLED)

2C39-A	6.3	2 3/4	1 1/2	100	1000	100
4C33	5	4 7/8	2 1/8	25	13000†	250†
9C22	19.5	25	17	41	17000	20000
9C25	6	17 3/8	14 1/4	32	11500	17500
833-A	10	8 1/2	4 1/2	35	4000	450
889R-A	11	11 7/8	5 1/2*	21	8500	5000
891-R	11#	22	6 1/2*	8.5	10000	4000
892-R	11#	22	6 1/2*	50	12500	4000
893A-R	20#	28	8 1/2*	34.5	20000	20000
5588	6.3	3 1/2	1 3/4	16	1000	200
5592	11	17 3/8	14 1/4	32	11500	17500
5604-A	11	13 3/4	5 1/2*	20	12500	10000
5671	11	25	16 1/2	39	15000	25000
5713	3.3	4 7/8	2 1/8	25	1500	250
5762/7C24	12.6	7 1/8	4 1/4	29	6200	3000
5786	11	9 5/8	2 1/8	32	3000	600
5946	6.3	3 1/2	1 3/4	27	7500*	250
6161	6.3	3 1/2	1 3/4	27	1600	250

## TETRODES (AIR-COOLED)

4-65A	6	4 3/8	2 3/8	55	3000	65
4-125A/4D21	5	5 1/4	2 3/4	5.9§	3000	125
860	10	8 3/4	4 1/4*	110	3000	100
861	11	17 3/2	6 5/8*	2400	3500	400
865	7.5	5 3/4	2 1/8	750	750	15

\*Maximum Radius. #Per Section. §Grid-Screen Mu-Factor.  
 •Absolute values for Continuous Commercial Service.  
 †Pulsed Oscillator Operation—Class C Plate Modulated.  
 ★Peak Positive-Pulse Plate-Supply Volts.

# RCA QUICK-SELECTION GUIDE

## VACUUM POWER TUBES (cont'd)

TYPE	CATH- ODE VOLTS	MAXIMUM DIMEN- SIONS INCHES		TRANS- CON- DUC- TANCE	MAX. PLATE RATINGS*	
		Length	Diam.	Micro- mhos	DC Volts	Dissi- pation Watts
TETRODES (WATER-COOLED)						
8D21	3.2	12 $\frac{3}{32}$	5 $\frac{3}{4}$	55b	6000	6000
TETRODES (FORCED-AIR-COOLED)						
4-250A/5D22	5	6 $\frac{3}{8}$	3 $\frac{7}{8}$	4000	4000	250
4-1000A	7.5	9 $\frac{5}{8}$	5 $\frac{1}{4}$	75	6000	1000
4X150A	6	2 $\frac{1}{2}$	1 $\frac{5}{8}$	55	1250	150
4X500A	5	4 $\frac{3}{8}$	2 $\frac{9}{16}$	6.25	4000	500
827-R	7.5	6 $\frac{3}{8}$	4 $\frac{1}{2}$	165	3500	800
6166	5	11 $\frac{5}{8}$	6 $\frac{1}{2}$	105	6600	10000
6181	120	7 $\frac{7}{8}$	5 $\frac{1}{2}$	85	2000	2000

## BEAM POWER TUBES AND PENTODES (AIR-COOLED)

2E24	6.3	3 1/2	1 5/8	3200	700☆	18.5☆
2E26	6.3	3 1/2	1 5/8	3500	700☆	18.5☆
3E22	6.3/12.6	4 5/8	2 3/8	4000	600☆	35☆
3E29— Similar to type 829-B but for pulsed operation.						
4E27/8001	5	6 1/8	2 1/4	2800	4000	75
4E27A/5-125B	5	6 1/8	2 3/4	2150	4000	125
802	6.3	5 3/4	2 1/8	2250	600†	13†
803	10	9 1/4	2 1/8	4000	2000	125
804	7.5	7 1/2	2 1/8	3250	1500†	50†
807	6.3	5 3/4	2 1/8	6000	750†	30†
813	10	7 1/2	2 1/8	3750	2250†	125†
814	10	7 1/2	2 1/8	3300	1500†	65†
815	6.3/12.6	4 1/8	2 3/8	4000	500†	25†
828	10	7 1/2	2 1/8	2700	1500†	80†
829-B	6.3/12.6	4 5/8	2 3/8	8500	750†	45†
832-A	6.3/12.6	3 1/8	2 3/8	3500	750†	15†
837	12.6	5 3/4	2 1/8	3400	500	12
1613	6.3	3 1/4	1 5/8	2500	350	10
1614	6.3	4 5/8	1 5/8	6050	450†	25†
1619	2.5	4 1/8	1 5/8	4500	400	15
1624	2.5	5 3/4	2 1/8	4000	600	25
1625	12.6	5 3/4	2 1/8	6000	750†	30†
5618	3.0/6.0	2 5/8	3/4	3600	300†	5†
5763	6	2 5/8	7/8	7000	300	12
5894	6.3/12.6	4 1/8	1 1/2	8.2§	600	40
6146	6.3	3 1/2	1 3/2	4.5§	750†	25†
Same as 6146 but has 26.5-volt heater						
See Technical Bulletin						
6417	12.6	2 5/8	7/8	Refer to 5763		
6524	6.3	3 1/8	1 1/2	4500	600	25

## BEAM POWER TUBES AND PENTODES (WATER-COOLED)

6448	1.35/2.70	7 1/2	11 1/8	65	7000	26000
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•Absolute values for Continuous Commercial Service.  
 †For Intermittent Commercial and Amateur Service.  
 §Grid-Screen Mu-Factor. ☆For Intermittent Mobile Service.



## RCA QUICK-SELECTION GUIDE

### GLOW-DISCHARGE (COLD-CATHODE) TUBES

TYPE	MAXIMUM DIMENSIONS INCHES		OPERATING VOLTS	OPERATING CURRENT DC MA.	
	Length	Diam.		Min.	Max.
VOLTAGE-REGULATOR TYPES					
OA2	2 $\frac{5}{8}$	$\frac{3}{4}$	151	5	30
OA3	4 $\frac{1}{8}$	1 $\frac{1}{8}$	75	5	40
OB2	2 $\frac{5}{8}$	$\frac{3}{4}$	108	5	30
OC3	4 $\frac{1}{8}$	1 $\frac{1}{8}$	108	5	40
OD3	4 $\frac{1}{8}$	1 $\frac{1}{8}$	153	5	40
991	1 $\frac{1}{8}$	$\frac{5}{8}$	59	0.4	2
5651*	2 $\frac{1}{8}$	$\frac{3}{4}$	87	1.5	3.5
6073	2 $\frac{5}{8}$	$\frac{3}{4}$	151	5	30
6074	2 $\frac{5}{8}$	$\frac{3}{4}$	108	5	30

#### MAX. RATINGS

TYPE	DIMENSIONS INCHES		Peak Anode Volts	Peak Cathode Ma.	Av. Cath- ode Ma.
	Length	Diam.			
RELAY TYPES					
OA4-G	4 $\frac{1}{8}$	1 $\frac{1}{8}$	225	100	25
IC21	2 $\frac{5}{8}$	1 $\frac{1}{8}$	180	100	25
5823	2 $\frac{1}{8}$	$\frac{3}{4}$	200	100	25

### RECTIFIERS

TYPE	CATHODE VOLTS	MAXIMUM DIMENSIONS INCHES		MAX. PLATE OR ANODE RATINGS	
		Length	Diam.	Peak Inv. Volts	Amp. Av.
VACUUM TYPES					
2V3-G	2.5	4 $\frac{1}{2}$	1 $\frac{1}{8}$	16500	0.002
2X2-A	2.5	4 $\frac{1}{2}$	1 $\frac{1}{8}$	12500	0.0075
5R4-GY	5	5 $\frac{3}{8}$	2 $\frac{1}{8}$	2800	0.175
217-C	10	8 $\frac{1}{2}$	2 $\frac{1}{8}$	7500	0.150
579-B	2.5	7 $\frac{1}{8}$	2 $\frac{1}{8}$	20000	0.025
836	2.5	6 $\frac{1}{8}$	2 $\frac{1}{8}$	5000	0.25
878	2.5	7 $\frac{5}{8}$	1 $\frac{1}{8}$	20000	0.005
1616	2.5	6 $\frac{1}{8}$	2 $\frac{1}{8}$	6000	0.13
5825	1.6	5 $\frac{3}{8}$	2 $\frac{1}{8}$	60000	0.002
8013-A	2.5	6 $\frac{1}{8}$	2 $\frac{1}{8}$	40000	0.020
8020	5	8	2 $\frac{1}{8}$	40000	0.100

### MERCURY-VAPOR TYPES

575-A	5	11 $\frac{1}{8}$	3 $\frac{1}{8}$	15000	1.5
673	5	11 $\frac{3}{8}$	3 $\frac{1}{8}$	15000	1.5
816	2.5	4 $\frac{1}{8}$	1 $\frac{1}{8}$	7500	0.125
857-B	5	19 $\frac{7}{8}$	7 $\frac{1}{8}$	22000	10
866-A	2.5	6 $\frac{1}{8}$	2 $\frac{1}{8}$	10000	0.25
869-B	5	14 $\frac{7}{8}$	5 $\frac{1}{8}$	20000	2.5
872-A	5	8 $\frac{1}{2}$	2 $\frac{1}{8}$	10000	1.25
5558	5	7	3	5000	2.5
5561	5	11 $\frac{1}{4}$	3 $\frac{1}{8}$	3000	6.4
8008	5	8 $\frac{3}{4}$	2 $\frac{1}{8}$	10000	1.25

\*Voltage-reference type.

## RCA QUICK-SELECTION GUIDE

### RECTIFIERS (cont'd)

TYPE	CATHODE VOLTS	MAXIMUM DIMENSIONS INCHES		MAX. PLATE OR ANODE RATINGS	
		Length	Diam.	Peak Inv. Volts	Av. Amp.
GAS TYPES					
3B25	2.5	6 $\frac{5}{8}$	2 $\frac{1}{8}$	4500	0.5
3B28	2.5	6 $\frac{3}{8}$	2 $\frac{1}{8}$	10000	0.25

### THYRATRONS

<b>TRIODES</b>					
3C23	2.5	6 $\frac{1}{8}$	2 $\frac{1}{8}$	1250	1.5
627	2.5	7	2 $\frac{1}{8}$	2500	0.64
629	2.5	4 $\frac{1}{4}$	1 $\frac{1}{8}$	350	0.04
676	5	11 $\frac{3}{4}$	3 $\frac{1}{4}$	2500	6.4
677	5	11 $\frac{3}{4}$	3 $\frac{1}{4}$	10000	4.0
884	6.3	4 $\frac{1}{8}$	1 $\frac{1}{8}$	350	0.075
885	2.5	4 $\frac{1}{8}$	1 $\frac{1}{8}$	350	0.075
5557	2.5	6 $\frac{3}{8}$	2 $\frac{1}{8}$	5000	0.5
5559	5	7 $\frac{1}{4}$	3	1000	2.5
5563-A	5	10 $\frac{1}{2}$	2 $\frac{7}{8}$	15000	1.6
5728/FG-67	5	7	3	1000	2.5
6130/3C45*	6.3	5 $\frac{3}{8}$	1 $\frac{1}{8}$	3000	0.045

### TETRODES

2D21	6.3	2 $\frac{1}{8}$	$\frac{3}{4}$	1300	0.1
3D22-A	6.3	4 $\frac{5}{8}$	2 $\frac{3}{8}$	1500	0.8
105	5	11 $\frac{1}{4}$	2 $\frac{1}{4}$ *	2500	6.4
172	5	10 $\frac{3}{4}$	2 $\frac{5}{8}$ *	2000	6.4
502-A	6.3	2 $\frac{5}{8}$	1 $\frac{1}{8}$	1300	0.1
672-A	5	8 $\frac{1}{4}$	2 $\frac{5}{8}$	2500	3.2
2050	6.3	4 $\frac{1}{8}$	1 $\frac{1}{8}$	1300	0.1
5560	5	7 $\frac{1}{2}$	2 $\frac{1}{4}$ *	1000	2.5
5596	6.3	1 $\frac{3}{4}$	$\frac{3}{4}$	500	0.025
6012	6.3	4 $\frac{1}{4}$	1 $\frac{1}{2}$	1300	0.5

### IGNITRONS

TYPE	Size	MAX. DIMENSIONS INCHES		MAX. ANODE RATINGS††		MAX. ANODE RATING*†	
		Approx. Length	Radius	KVA Demand	Corresponding Av. Anode Amp.	Peak Inv. Volts	Av. Amp.
5550	(A)	10	1 $\frac{3}{8}$	300	12.1	.....	.....
5551	(B)	13 $\frac{1}{2}$	2 $\frac{3}{8}$	600	30.2	.....	.....
5552	(C)	14 $\frac{1}{2}$	3 $\frac{5}{8}$	1200	75.6	.....	.....
5553-A	(D)	20	4 $\frac{1}{2}$	2400	192.	.....	.....
5554		17 $\frac{1}{2}$	3 $\frac{1}{8}$	.....	.....	2100	75
5555		18 $\frac{1}{2}$	4 $\frac{1}{8}$	.....	.....	2100	150
5822		14 $\frac{1}{2}$	3 $\frac{5}{8}$	.....	.....	1500▲	56▲

\*Maximum Radius. ††For welder-control service.

\*†For power rectification. \*For operation up to 50000 feet.

▲For frequency-changer resistance-welding service.

## RCA QUICK-SELECTION GUIDE

### PHOTOTUBES

TYPE	Length	MAX. DIMENSIONS INCHES Diam.	MAX. ANODE-SUPPLY VOLTS	LUMINOUS SENSITIVITY MICROAMP. PER LUMEN	SPEC-TRAL RE-SPONSE
<b>GAS TYPES</b>					
1P29	4 1/8	1 1/8	100	40	S-3
1P37	4 1/8	1 1/8	100	135	S-4
1P40	Same as 930 except for non-hygroscopic base.				
1P41	2 1/4	1 1/8	90	90	S-1
868	4 1/8	1 1/8	100	90	S-1
918	4 1/8	4 1/8	90	150	S-1
920	4	1 3/8	90	100	S-1
921	1 3/8	1 3/8	90	135	S-1
923	3 1/8	1 3/8	90	135	S-1
924	2 1/4	1 3/8	90	90	S-1
927	2 3/8	1 1/4	90	125	S-1
928	3 1/8	1 3/8	90	65	S-1
930	3 1/8	1 3/8	90	135	S-1
5581	3 1/8	1 3/8	100	135	S-4
5582	1 3/8	1 3/8	100	120	S-4
5583	2 1/4	1 1/4	100	135	S-4
5584	4	1 3/8	100	120	S-4
6405/1640	4 7/8	1 1/8	90	135	S-1

### VACUUM TYPES

1P39	Same as 929 except for non-hygroscopic base.				
1P42	1 1/2	1/4	180	37	S-9
917	4 7/8	1 1/8	500	20	S-1
919	4 7/8	1 1/8	500	20	S-1
922	1 3/8	3/8	500	20	S-1
925	2 3/8	1 3/8	250	20	S-1
926	1 3/8	3/8	500	6.5	S-3
929	3 1/8	1 3/8	250	45	S-4
934	2 1/2	1 1/4	250	30	S-4
935	4 1/4	1 3/8	250	35	S-5
5652*	2 7/8	1 3/8	250	45	S-4
5653	3 1/8	1 3/8	250	45	S-4
6570	4 7/8	1 1/8	500	30	S-1

### MULTIPLIER PHOTOTUBES

TYPE	Length	MAX. DIMENSIONS INCHES Diam.	MAX. ANODE-SUPPLY VOLTS	LUMINOUS SENSITIVITY AMP/LUMEN	SPEC-TRAL RE-SPONSE
1P21	3 1/4	1 5/8	1250	80*	S-4
1P22	3 1/4	1 5/8	1250	0.6*	S-8
1P28	3 1/4	1 5/8	1250	50*	S-5
931-A	3 1/4	1 1/5	1250	24*	S-4
2020	5 1/2	2 1/4	1500	6**	S-11
5819	5 1/2	2 1/4	1250	25*	S-11
6199	4 9/16	1 5/8	1250	27*	S-11
6217	5 1/2	2 1/4	1250	24*	S-10

†Twin type. \*Twin type; each unit has a composite anode-cathode. •With Supply Volts=1000. \*\*With Supply Volts=1250.

## RCA QUICK-SELECTION GUIDE

### MULTIPLIER PHOTOTUBES (cont'd)

TYPE	Length	MAX. DIMENSIONS INCHES Diam.	MAX. ANODE-SUPPLY VOLTS	LUMINOUS SENSITIVITY AMP/LUMEN	SPEC-TRAL RE-SPONSE
6323	3 1/4	1 5/8	1250	35*	S-4
6328	3 1/8	1 5/8	1250	35*	S-4
6342	5 1/2	2 1/4	1500	7.5**	S-11
6372	7 3/4	2 5/8	1200	20	S-11
6472	2 3/4	1 5/8	1250	35*	S-4
6655	5 1/2	2 1/4	1250	25*	S-11

### CATHODE-RAY TUBES†

TYPE	MAX. OVER-ALL LENGTH Inches	MIN. SCREEN DIAM. Inches	MAX. FINAL ELEC-TRODE VOLTS	DEFLECTION FACTOR VOLTS DC/INT	DJ <sub>1</sub> -DJ <sub>2</sub> †† DJ <sub>3</sub> -DJ <sub>4</sub> *
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### OSCILLOGRAPH TYPES:

#### Medium Persistence, Electrostatic Focus:

2AP1-A	7 5/8	1 3/4	1000	184-276	167-235
2BP1	7 1/2	1 3/4	2500	115-155	74-100
3AP1-A	11 7/8	2 1/2	1500	61-91	59-89
3BP1-A	10 1/4	2 3/4	2000	80-120	59-89
3JP1	10 1/4	2 3/4	4000	85-115	63-85
3KP1	11 3/4	2 3/4	2500	50-68	38-52
3MP1	8 1/4	2 3/4	2500	115-145	110-140
3RP1	9 3/8	2 3/4	2500	73-99	52-70
3RP1-A	Same as type 3RP1, except has flat face.				
5ABP1	17 1/8	4 1/8	6000	27-36	18-24
5ABP4	Same as type 5ABP1, except for phosphor.				
5BP1-A	17 1/8	4 1/2	2000	35-49	32-45
5CP1-A	17 1/8	4 1/2	4000	39-53	33-45
5UP1	15 1/8	4 1/2	2500	28-39	23-31
7CP1	13 1/2	6 1/2	8000	**	**
7VP1	14 7/8	6	4000	31-41	25-34
902-A	7 5/8	1 3/4	600	183-277	160-235
914-A	20 7/8	8 1/4	7000	38-54	30-44

†All have 6.3-v heaters except: the 3AP1-A and 914-A which have 2.5-v heaters; and the 7NP4 and 7WP4 which have 6.6-v heaters. ††Per KV of final electrode volts. ††Deflecting electrodes nearer the face. \*Deflecting electrodes nearer the base. □Post-deflection accelerator type. \*\*Magnetic deflection. ▶For head-light dimming device. \*Excluding flexible leads. •With Supply Volts = 1000. \*\*With Supply Volts = 1250.



## RCA QUICK-SELECTION GUIDE

### CATHODE-RAY TUBES (cont'd)

TYPE	MAX. OVER-ALL LENGTH Inches	MIN. SCREEN DIAM. Inches	MAX. FINAL ELEC-TRODE VOLTS	DEFLECTION FACTOR VOLTS DC/IN†	DJ <sub>1</sub> -DJ <sub>2</sub> ††	DJ <sub>3</sub> -DJ <sub>4</sub> *
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#### Short Persistence:

2BP11	Same as type 2BP1, except for phosphor.					
3KP11	Same as type 3KP1, except for phosphor.					
5ABP11	Same as type 5ABP1, except for phosphor.					
5CP11-A	Same as type 5CP1-A, except for phosphor.					
5UP11	Same as type 5UP1, except for phosphor.					
908-A	Same as type 3AP1-A, except for phosphor.					

#### Medium-Long Persistence:

5CP12	Same as type 5CP1-A, except for phosphor.					
5FP14	Same as type 5FP7-A, except for phosphor.					
7MP14	Same as type 7MP7, except for phosphor.					

#### Long Persistence:

3FP7-A ♦	10 1/4	2 3/4	4000	106-144	77-104
3JP7	Same as type 3JP1, except for phosphor.				
3KP7	Same as type 3KP1, except for phosphor.				
5ABP7	Same as type 5ABP1, except for phosphor.				
5CP7-A	Same as type 5CP1-A, except for phosphor.				
5FP7-A	11 1/2	4 1/4	8000	Mag. focus & deflec.	
5UP7	Same as type 5UP1, except for phosphor.				
7BP7-A	13 5/8	6	8000	Mag. focus & deflec.	
7MP7	13 1/8	6	8000	Mag. focus & deflec.	
10KP7	18	9	10000	Mag. focus & deflec.	
12DP7-A	20 1/8	10	10000	Mag. focus & deflec.	
12DP7-B	Same as 12DP7-A, but has filterglass faceplate.				
16ADP7	22	14 3/8	14000	Mag. focus & deflec.	

TYPE	MAX. OVER-ALL LENGTH Inches	MIN. SCREEN DIAM. Inches	MAX. FINAL ELEC-TRODE VOLTS	MAX. FOCUS-ING ELEC-TRODE VOLTS	DEFLEC-TION ANGLE Approx. Degrees
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#### FLYING-SPOT TYPES:

5AUP24#	12 7/8	4 1/4	27000	6000	50
5WP15	11 1/2	4 1/4	27000	6000	50
5ZP16	14 3/4	4 1/4	27000	7000	40

#### TRANSCRIBER KINESCOPE:

5WP11	11 1/2	4 1/4	27000	6000	50
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#### VIEW-FINDER KINESCOPIES:

5AYP4#	11 1/2	4 1/4	10000	1500	53
5FP4-A	11 1/2	4 1/4	8000	5	53

†All have 6.3v heaters except: the 3AP1-A and 914-A which have 2.5-v heaters; and the 7NP4 and 7WP4 which have 6.6-v heaters.

♦Electrostatic focus. #Aluminized. †, ††, \* See preceding page.

## RCA QUICK-SELECTION GUIDE

### CATHODE-RAY TUBES‡ (cont'd)

TYPE	MAX. OVER-ALL LENGTH Inches	MIN. SCREEN DIAM. Inches	MAX. FINAL ELEC-TRODE VOLTS	MAX. FOCUS-ING ELEC-TRODE VOLTS	DEFLEC-TION ANGLE Approx. Degrees
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**PROJECTION KINESCOPIES (For Theater Television):**

7NP4#	20 1/8	5x3 3/4	80000	20000	35
7WP4▲#	20 1/8	5x3 3/4	80000	20000	35

**MONITOR KINESCOPIES:**

7CP4	13 1/2	6 1/2	8000	2400	57
7QP4	13 1/4	6	10000	5	52
7TP4#	13 1/2	6	12000	2000	50
10SP4#	17	9 1/8	14000	2700	50

‡All have 6.3-v. heaters except: the 3AP1-A and 914-A which have 2.5-v. heaters; and the 7NP4 and 7WP4 which have 6.6-v. heaters.  
■Projection-throw distance = 60 ft. ▲Projection-throw distance = 80 ft. §Magnetic focus. #Aluminized.

### CAMERA TUBES

#### ICONOSCOPES:

1850-A—Far pick-up from motion-picture film or slides. Utilizes electrostatic focus and magnetic deflection. Has high ratio of signal to noise but relatively low sensitivity. Response covers entire visible spectrum.

5527 For industrial and laboratory TV applications. Features small size and moderate sensitivity. Utilizes electrostatic focus and deflection.

#### IMAGE ORTHICONS:

5820 For both outdoor and studio pickup. Has exceptional sensitivity combined with spectral response approaching that of the eye. Very stable in performance at all incident light levels on the object ranging from bright sunlight to a deep shadow. Utilizes magnetic focus and deflection.

6474/ For use in color cameras utilizing the method of simultaneous pickup of the studio or outdoor scene to be televised. Has exceptional sensitivity combined with spectral response approaching that of the eye. Utilizes magnetic focus and deflection.

#### VIDICONS:

6198 For use in industrial TV applications. Features small size and simplicity. Employs as its light-sensitive element a photoconductive layer having spectral response approaching that of the eye. Has very good sensitivity. Utilizes magnetic focus and deflection.

6326 Similar to 6198 but intended primarily for use in TV cameras for motion-picture film, transparencies, and opaques. Gives excellent results with any TV film projector.

## RCA QUICK-SELECTION GUIDE

### CAMERA TUBES (cont'd)

#### MONOSCOPES:

- 2F21 A 5" type with Indian-head test pattern for supplying signal to test video performance of TV receivers and transmitters. Utilizes electrostatic focus and magnetic deflection.
- 1699 Custom-built type like the 2F21 except that its pattern is individually styled to customer requirements.

### COMPUTER STORAGE TUBE

- 6571 Single-beam type. For use in binary-digital computer systems.

### VACUUM-GAUGE TUBES

- 1945 Hydrogen-Sensitive, Ionization Type. For locating minute leaks in vacuum enclosures.
- 1946 Thermocouple Type. For measuring gas pressures in the range from 1 mm to 0.0001 mm of mercury (1000 to 0.1 micron).
- 1947 Pirani Type. For measuring gas pressures in the range from 0.5 mm to 0.01 mm of mercury (500 to 10 microns).
- 1949 Ionization Type, hard-glass construction. For measuring gas pressures below 0.0001 mm of mercury (0.1 micron).
- 1950 Ionization Type. Similar to type 1949, but soft-glass construction.

### "SPECIAL RED" TUBES

Designed and manufactured for critical industrial applications where 10000-hour life, rigid construction, extreme uniformity and exceptional stability are paramount.

- 5690 Full-Weave Vacuum Rectifier. Features two separate diode units of the indirectly-heated-cathode type. Max. peak inverse plate volts, 1120; max. peak plate current per plate, 375 ma.; max. dc output current per plate, 75 ma.
- 5691 High-Mu Twin Triode similar to type 6SL7-GT.
- 5962 Medium-Mu Twin Triode similar to type 6SN7-GT.
- 5693 Sharp-Cutoff Pentode similar to type 6SJ7.

### "PREMIUM" TUBES

For special applications where dependable performance under shock and vibration is a prime consideration.

#### MINIATURE TYPES

- 5654 Sharp-Cutoff Pentode. "Premium" version of type 6AK5 for rf and if broad-band applications.
- 5726 Twin Diode. "Premium" version of type 6AL5-W for detector service in circuits utilizing wide-band amplifiers.
- 5751 High-Mu Twin Triode. "Premium" type similar to 12AX7 for applications such as phase inverters, and in numerous industrial control devices.
- 5814-A—Medium-Mu Twin Triode. "Premium" type similar to

## RCA QUICK-SELECTION GUIDE

### "PREMIUM" TUBES (cont'd)

#### MINIATURE TYPES (cont'd)

- 12AU7 for applications such as mixers, oscillators, phase inverters, and in numerous industrial control devices.
- 6073 Voltage Regulator, Glow-Discharge Type having very stable characteristics. "Premium" version of type OA2.
- 6074 Voltage Regulator, Glow-Discharge Type having very stable characteristics. "Premium" version of type OB2.
- 6101 Medium-Mu Twin Triode. Especially designed as a class A amplifier in mobile and aircraft equipment and in industrial application where uniformity of characteristics and dependability are important.

#### SUBMINIATURE TYPES

- 5718 Medium-Mu Triode. "Premium" type similar to miniature type 6C4 for use as a power amplifier and oscillator. Will give a useful power output of nearly one watt at a frequency of 500 megacycles per second.
- 5719 High-Mu Triode. "Premium" type for use as an audio amplifier in mobile and aircraft receivers. In audio service as a resistance-coupled amplifier, it is capable of providing high voltage gain.
- 5840 Sharp-Cutoff Pentode. "Premium" type similar to miniature type 6AK5 for use as an rf or if amplifier in high-frequency broad-band circuits in mobile and aircraft receivers. As an rf amplifier, the 5840 can be used at frequencies up to about 400 Mc.

### TYPES FOR SPECIAL APPLICATIONS

#### ACORNS

- 6F4 Oscillator Triode. Heater-cathode type. For frequencies up to 1200 Mc.
- 6L4 U-H-F Oscillator Triode. Heater-cathode type. For frequencies up to 1200 Mc.
- 954 Detector Amplifier Pentode. Heater-cathode type. For frequencies up to 430 Mc.
- 955 Detector Amplifier Oscillator Triode. Heater-cathode type. For frequencies up to 600 Mc.
- 956 Super-Control R-F Amplifier Pentode. Remote cut-off, heater-cathode type. For frequencies up to 430 Mc.
- 957 Detector Amplifier Oscillator Triode. Filament volts, 1.25. Amplification factor, 13.5.
- 958-A—Amplifier Triode. Filament volts, 1.25. For oscillator and rf amplifier service.
- 959 Detector Amplifier Pentode. Filament volts, 1.25 for rf amplifier and detector service.
- 9004 U-H-F Diode. Heater-cathode type. For u-h-f service as a rectifier, detector or measuring device. Resonant frequency, about 850 Mc.



## RCA QUICK-SELECTION GUIDE

### TYPES FOR SPECIAL APPLICATIONS (cont'd)

#### ACORNS (cont'd)

- 9005 U-H-F Diode. Heater-cathode type. For u-h-f service as a rectifier, detector or measuring device. Resonant frequency, about 1500 Mc.

#### MINIATURES

- 3A4 Power Amplifier Pentode. Filament volts, 1.4/2.8. A-F power output of 700 milliwatts.
- 3A5 H-F Twin Triode. Class C power output of 2 watts at 40 Mc.
- 6AS6 Sharp-cutoff Pentode. 7-pin miniature type. Grids No. 1 and No. 3 can each be used as independent control electrodes. For use in gated amplifier circuits, delay circuits, gain-controlled amplifiers, and mixer circuits.
- 6J4 U-H-F Amplifier Triode. Cathode-drive amplifier. For frequencies up to 500 Mc.
- 12AY7—Medium-Mu Twin Triode. 9-pin Miniature Type. For use in the first stages of high-gain audio-frequency amplifiers, where reduction of microphonics, leakage noise, and hum are primary considerations.
- 26A6 RF Amplifier Pentode. Remote-cutoff, heater-cathode type. Useful in aircraft receivers operating directly from 12-cell storage batteries.
- 26C6 Duplex-Diode Triode. Heater-cathode type. Useful in aircraft receivers operating directly from 12-cell storage batteries.
- 26D6 Pentagrid Converter. Heater-cathode type. Useful in aircraft receivers operating directly from 12-cell storage batteries.
- 1654 Half-Wave High-Vacuum Rectifier. Max. peak inverse plate volts, 4300. Max. average plate current, 1 ma.
- 5879 Sharp-Cutoff Pentode. 9-pin miniature type. Intended for use as an audio amplifier in applications requiring reduced microphonics, leakage noise, and hum. Especially useful in the input stages of medium-gain public address systems, home sound recorders, and general-purpose audio systems.
- 9001 Detector Amplifier Pentode. A sharp cut-off pentode for use as an r-f amplifier or detector in u-h-f service.
- 9002 U-H-F Triode. Useful as a u-h-f detector, amplifier and oscillator.
- 9003 Super-Control R-F Amplifier Pentode. Remote cut-off type useful as a mixer or as an r-f or i-f amplifier in u-h-f services.
- 9006 U-H-F Diode. Heater-cathode type. Resonant frequency, about 700 Mc. For u-h-f service as a rectifier, detector, or measuring device.

## RCA QUICK-SELECTION GUIDE

### TYPES FOR SPECIAL APPLICATIONS (cont'd)

#### METAL, GT, AND OTHER GLASS TYPES

- 2C40 Lighthouse Triode. A high frequency amplifier and oscillator for use up to 3000 Mc. Plate dissipation, 6.5 watts max.,  $\mu = 36$ , gm = 4800 micromhos.
- 2C43 Lighthouse Triode. Has the same design features as the 2C40 except for a plate dissipation of 12 watts max.,  $\mu = 48$ , and gm = 8000 micromhos.
- 6AG7-Y—Power Amplifier Pentode. Similar to type 6AG7 except for micanol base.
- 6AS7-G—Low-Mu Twin Triode. Heater-cathode type. Has high perveance, a  $\mu$  of 2, and an ac plate resistance of 280 ohms. For use as a regulator tube in dc power supplies, and in projection television booster scanning applications.
- 6SJ7-Y—Triple-Grid Detector Amplifier. Same as type 6SJ7 except for micanol base.
- 12A6 Beam Power Amplifier. Metal type. Designed particularly for aircraft applications. Heater volts, 12.6. Max. plate volts, 250.
- 12L8GT—Twin-Pentode Power Amplifier. Heater volts, 12.6. Max. plate volts, 180. Plate dissipation per plate, 2.5 watts. Similar to type 1644.
- 12SW7—Duplex-Diode Triode. Heater-cathode type. Useful in aircraft receivers.
- 12SX7-GT—Twin-Triode Amplifier. Heater-cathode type. Useful in aircraft receivers.
- 12SY7—Pentagrid Converter. Single-ended metal type. Useful in aircraft receivers.
- 26A7-GT—Twin A-F Beam Power Amplifier. Heater volts, 26.5. Max. plate volts, 50. For 12-cell battery service.
- 1609 Amplifier Pentode. For low-microphonic applications. Filament volts, 1.1. Max. plate volts, 135.
- 1612 Pentagrid Amplifier. For low-microphonic applications. Heater volts, 6.3. Max. plate volts, 250. Similar to type 6L7.
- 1620 Triple-Grid Detector Amplifier. For low-microphonic applications. Heater volts, 6.3. Max. plate volts, 250. Similar to type 6J7.
- 1621 Power Amplifier Pentode. Metal type. For applications requiring continuity of service. Heater volts, 6.3. In push-pull service: Max. plate volts, 300; a-f power output, 5 watts.
- 1622 Beam Power Amplifier. Metal type. For applications requiring continuity of service. Heater volts, 6.3. In push-pull service: Max. plate volts, 300; power output, 10 watts.
- 1629 Electron-Ray Tube. Indicator type. Similar to type 6E5 except for a 12.6-volt heater and an octal base.

## RCA QUICK-SELECTION GUIDE

### TYPES FOR SPECIAL APPLICATIONS (cont'd)

#### METAL, GT, AND OTHER GLASS TYPES (cont'd)

- 1631 Beam Power Amplifier. Metal type. Similar to type 6L6 except for a 12.6-volt heater. Max. plate dissipation, 16 watts.
- 1632 Beam Power Amplifier. Metal type. Similar to type 25L6 except for 12.6-volt heater, and plate voltage and dissipation ratings.
- 1634 Twin-Triode Amplifier. Single-ended metal type. Same as 12SC7 but especially suited for applications requiring matched triode units.
- 1635 Class B Twin Amplifier. Heater-cathode type. For audio amplifier applications.
- 5890 Low-current beam pentode of the remote-cutoff type intended particularly for the regulation of high-voltage dc power supplies.
- 6026 Oscillator Triode. Subminiature type intended for transmitting service in radiosonde applications at 400 Mc.
- 6080 Low-Mu Twin Triode. Similar to type 6A57-G in characteristics, but is smaller in size. Intended for applications critical as to shock and vibration, and requiring reduced susceptibility to electrolysis.
- 6082 Same as 6080 but has 26.5-volt heater. Intended for use in aircraft receivers.

#### UHF "PENCIL" TUBES

- 5675 Medium-Mu Triode. For use in cathode-drive circuits at frequencies up to 3000 Mc/s. As a local oscillator, it is capable of giving a power output of 475 milliwatts at 1700 Mc/s.
- 5794 Fixed-Tuned Oscillator Triode. Intended for transmitting service in radiosonde application at 1680 Mc.
- 5876 High-Mu Triode. General purpose type. For use in cathode-drive circuits as an r-f amplifier, i-f amplifier, or mixer tube up to 1000 Mc/s; as a frequency multiplier up to 1500 Mc/s; and as an oscillator up to 1700 Mc/s. Delivers useful output of 5 watts at 500 Mc/s as an unmodulated Class C r-f amplifier, and 750 milliwatts as an oscillator at 1700 Mc/s.
- 5893 Medium-Mu Triode. Designed for use in cathode-drive circuits as a plate-pulsed oscillator at 3300 Mc/s and as a cw oscillator, rf power amplifier, and frequency doubler up to 1000 Mc/s.
- 6173 UHF Diode. For use in pulse detection and pulse-power-measuring service. May be operated at frequencies as high as 3300 Mc.

## RCA QUICK-SELECTION GUIDE

### UHF "PENCIL" TUBES (cont'd)

- 6263 Medium-Mu Triode. For use in cathode-drive, rf power amplifiers and oscillators in mobile transmitters operating up to 60000 feet without pressurized chambers. Under ICAS conditions, gives a useful power output of about 10 watts at 500 Mc. in unmodulated class C service with a plate input of only 14 watts.
- 6264 Like the 6263 but has a mu of 40. For frequency-amplifier service.

### TYPES FOR ELECTRONIC-COMPUTER AND OTHER

#### "ON-OFF" CONTROL APPLICATIONS

- 5915 Pentagrid Amplifier. 7-pin miniature type designed for use as a gated amplifier in electronic computers. Grids No. 1 and No. 3 can each be used as independent control electrodes.
- 5963 Medium-Mu Twin Triode. 9-pin miniature type intended for frequency-divider circuits in computers. Separate terminal for each cathode, and a mid-tapped heater for 6.3-volt or 12.6-volt operation.
- 5964 Medium-Mu Twin Triode. 7-pin miniature type intended for frequency-divider circuits in computers.
- 5965 Medium-Mu Triode. 9-pin miniature type. Balance of cutoff bias between the two units is closely controlled.
- 6197 Sharp-cutoff Power Pentode. 9-pin miniature type with a transconductance of 11000 micromhos. For frequency-divider and pulse amplifier service.
- 6211 Same as 5963 except that balance of cutoff bias between the two units is closely controlled.

#### KLYSTRONS

- 2K26 Single-resonator, reflex type oscillator for operation in the frequency range from 6250 to 7050 megacycles. It has a useful power output of about 100 milliwatts.

#### MECHANO-ELECTRONIC TRANSDUCER

- 5734 Triode type for applications involving the measurement of mechanical vibration. Has a minimum free cantilever resonance of the internal section of the plate shaft of 12000 cycles per second.

#### MAGNETRONS

- 2J41 Low-power, frequency-stabilized type with an integral magnet. Intended primarily for use as a pulsed oscillator at 9310 Mc in beacon service. Minimum peak stabilized power output of 300 watts at 9310 Mc and a duty cycle of 0.003.



# RCA QUICK-SELECTION GUIDE

## MAGNETRONS (cont'd)

- 2J50 Internal resonant-circuit type intended for pulsed-oscillator service, such as radar, at a fixed frequency of 8825 Mc. Will give a peak power output of 45 kilowatts when operated at 12000 peak anode volts.
- 4J50 Internal resonant-circuit type with an integral magnet. Intended for pulsed-oscillator service, such as radar, at a fixed frequency of  $9375 \pm 30$  Mc. Will give a peak power output of 240 kilowatts when operated at 23000 peak anode volts.
- 4J52 Internal resonant-circuit type with magnet attached. Intended for pulsed-oscillator service at a fixed frequency of 9375 Mc. Will give a peak power output of 80 kilowatts when operated at 15000 peak anode volts.
- 6521 Internal-resonant circuit type with an integral magnet. Designed and conservatively rated for long, reliable performance as a pulsed oscillator at a fixed frequency of 5400 Mc in weather radar equipment.

## SEMICONDUCTOR DEVICES

### TRANSISTORS

#### Junction Types

- 2N77 } Germanium p-n-p alloy types. For low-power audio applications where extreme stability and excellent uniformity of characteristics are paramount. The 2N77 and 2N105 are especially useful in hearing-aid applications.
- 2N104 }
- 2N105 }
- 2N109—Germanium p-n-p alloy type. For large-signal audio applications such as class B push-pull power output stages of battery-operated portable radio receivers and audio amplifiers. Also useful as a high-gain class A driver. Provides high power sensitivity.

### CRYSTAL DIODES

#### Germanium Point-Contact Types

- 1N34-A—General-purpose type for low-power rectification in applications such as isolating, clipping, and switching circuits, as well as in certain meter circuits.
- 1N38-A } Large-signal types having high peak inverse voltage ratings. They are especially useful in electronic computers, clamping, circuits, dc restorer circuits, and in high voltage probes.
- 1N55-A }
- 1N58-A }
- 1N54-A—High-back-resistance type for use in clipping circuits, high-impedance high-voltage probes, dc restorer circuits, and high-impedance detector circuits.
- 1N56-A—High-conduction type featuring exceptionally low dynamic impedance. It is especially useful for limiter service in frequency modulation receivers.

# RCA INTERCHANGEABILITY DIRECTORY OF TUBES FOR COMMUNICATIONS AND INDUSTRY

## Direct Replacement Types

RCA types shown below are direct replacements under all circumstances for corresponding types to be replaced.

Type to be Replaced	Replace by RCA Type	Type to be Replaced	Replace by RCA Type
OA3/VR75	OA3	CE-23(A-D)	923
OC3/VR105	OC3	PJ-23	868
OD3/VR150	OD3	CE-25(A-D)	927
CE-1(A-D)	868, 918	RK-25	802
1P32	927	RK-25B	802
2AP1	2AP1-A	CE-28(A-D)	928
2B4	885	RK-28	803
ML-381	2C39-A	RK-28A	803
3X100A11	2C39-A	CE-29(A-D)	929, 1P39
ZP572	2C39-A	CE-30(A-D)	930, 1P40
2X2/879	2X2-A	CE-30V	925
3-50G2	834	RK-30	800
3AP1	3AP1-A	FG-32	5558
3BP1	3BP1-A	CE-34	934
3C45	6130/3C45	RK-39	807
3D22	3D22-A	CE-41	921
4D21	4-125A/4D21	CE-42	922
4-250A	4-250A/5D22	RK-44	837
4-400A	4-250A/5D22	RK-47	814
5BP1	5BP1-A	UH-50	834
5CP1	5CP1-A	R51A	927
5CP7	5CP7-A	CE-55	924
5D22	4-250A/5D22	FG-57	5559
5FP7	5FP7-A	RK-57	805
5HP1-A	5BP1-A*	RK-58	838
7BP7	7BP7-A	CE-59	5581
PJ-8	5556	R59A	868, 918
G9	868	R60A	920
BW-11	834	HY-61/807	807
CE-11V(A-D)	917	R61A	930
RK-11	1623	CE-64	5583
12DP7	12DP7-A	FG-67	5728/FG-67
FG-17	5557	VR75-30	OA3
CE-20	927	FG-95	5560
RK-20A	804	CE-98	5582
CE-21(A-D)	920	FG-104	5561

\*Except in high-altitude service.

# RCA INTERCHANGEABILITY DIRECTORY OF TUBES FOR COMMUNICATIONS AND INDUSTRY

## Direct Replacement Types (cont'd)

RCA types shown below are direct replacements under all circumstances for corresponding types to be replaced.

Type to be Replaced	Replace by RCA Type	Type to be Replaced	Replace by RCA Type
VR105-30	OC3	WT-210-0070	5550
HF120	211	WT-210-0071	5551
VR150-30	OD3	WT-210-0072	5552
WT-210-0001	2D21	WT-210-0073	5553
WT-210-0003	884	WT-210-0074	105
WT-210-0004	2050	WT-210-0078	172
WT-210-0006	6H6	WT-210-0079	105
WT-210-0008	866-A	WT-210-0081	6SJ7
WT-210-0009	84/6Z4	WT-210-0082	6V6
WT-210-0011	OC3	WT-210-0083	7K7
WT-210-0012	80	WT-210-0084	6N7-GT
WT-210-0013	5Z3	WT-210-0085	50B5
WT-210-0015	5557	WT-210-0086	833-A
WT-210-0018	OD3	WT-210-0087	6K8-GT
WT-210-0019	83	WT-210-0088	6J5-GT
WT-210-0021	6X5	WT-210-0089	6G6-G
WT-210-0025	117Z6-GT	WT-210-0090	6C6
WT-210-0027	872-A	WT-210-0091	0A4-G
WT-210-0028	3Q5-GT	211-D	211
WT-210-0029	6C5	FG-235A	5552
WT-210-0031	902-A	FG-238B	5555
WT-210-0037	117L7/M7-GT	242A	211
WT-210-0038	172	242B	211
WT-210-0040	6X4	WT-245	884
WT-210-0042	5Y3-GT	WT-246	2050
WT-210-0044	575-A	FG-258A	5553
WT-210-0045	892	FG-259B	5554
WT-210-0048	5U4-G	WT-261	6H6
WT-210-0052	2API-A	WE-261A	835
WT-210-0053	3API-A	WT-262	866-A
WT-210-0056	5559	WT-263	6Z4
WT-210-0057	5560	WT-269	OC3
WT-210-0058	676	WT-270	80
WT-210-0060	OZ4	WT-270X	5Z3
WT-210-0061	117N7-GT	FG-271	5551
WT-210-0062	5557	WT-272	5557
WT-210-0069	5557	WE-274B	5R4-GY

# RCA INTERCHANGEABILITY DIRECTORY OF TUBES FOR COMMUNICATIONS AND INDUSTRY

## Direct Replacement Types (cont'd)

RCA types shown below are direct replacements under all circumstances for corresponding types to be replaced.

Type to be Replaced	Replace by RCA Type	Type to be Replaced	Replace by RCA Type
WT-294	OD3	ML-728	5557
WE-295A	203-A	VL-733	838
WT-301	83	801	801-A
UE-303A	203-A	811	811-A
WE-304B	834	812	812-A
F-307A	207	829	829-B
WT-308	6X5-GT	829-A	829-B
CE-309	5557	832	832-A
CE-311	3C23	833	833-A
UE-311	211	C-833	833-A
UE-311C	835	UH-50	834
UE-317C	217-C	857	857-B
WE-322A	803	862	862-A
WE-350A	807	866	866-A
375-A	575-A	866-A/866	866-A
WT-377	117Z6-GT	869-A	869-B
ML-381	2C39-A	872	872-A
WT-389	3Q5-GT	872-A/872	872-A
WT-390	6C5	F-872B	872-A
FJ-401	1P29	879	2X2-A
WE-403A	6AK5	889	889-A
GL-415	5550	893	893-A
GL-451	8020	902	902-A
ZP-572	2C39-A	UE-905	805
WT-606	2D21	905	905-A
WL-630	2050	906-PI	3API-A
WL-631	5559	908	908-A
KU-634	677	914	914-A
WL-651/656	5552	931	931-A
WL-652/657	5551	UE-938	838
WL-653B	5555	UE-949	849
WL-655/658	5553	UE-966A	866-A
672	672-A	UE-967	5557
678	5563-A	UE-972A	872-A
WL-679	5554	UE-975A	575-A
WL-681/686	5550	1640	6405/1640
NL-715	5557	1802-PI	5BPI-A



# RCA INTERCHANGEABILITY DIRECTORY OF TUBES FOR COMMUNICATIONS AND INDUSTRY

## Direct Replacement Types (cont'd)

RCA types shown below are direct replacements under all circumstances for corresponding types to be replaced.

Type to be Replaced	Replace by RCA Type	Type to be Replaced	Replace by RCA Type
1811-P1	7CP1	WTT-115	117N7-GT
1849	1850-A	WTT-117	5557
1850	1850-A	WTT-118	105
1854	6474/1854	WTT-119	172
1904	5728/FG-67	WTT-122	6SJ7
2051	2050	WTT-123	6V6
2525A5	5BPI-A	WTT-124	7K7
5604	5604-A	WTT-125	6N7-GT
5814	5814-A	WTT-126	50B5
8001	4E27/8001	WTT-127	833-A
8016	1B3-GT	WTT-128	6K8-GT
WTT-100	6X4	WTT-129	6J5-GT
WTT-102	5Y3-GT	WTT-130	6G6-G
WTT-103	6H6	WTT-131	6C6
WTT-104	575-A	WTT-132	0A4-G
WTT-105	892	WTT-135	5U4-G
WTT-111	5559	WTT-136	2AP1-A
WTT-112	5560	WTT-137	3AP1-A
WTT-113	676	WTT-149	172
WTT-114	0Z4		

NOTE: For additional replacement data on RCA Tubes for broadcasting and industry, see the 20-page RCA Interchangeability Directory (Form 1D-1020) listing 1600 industrial tube type numbers used by 24 manufacturers.

# RCA INTERCHANGEABILITY DIRECTORY OF TUBES FOR COMMUNICATIONS AND INDUSTRY

## Similar Types

RCA types shown below are not directly interchangeable with the types to be replaced because of mechanical and/or electrical differences. For more information as to degree of interchangeability, refer to respective tube data or write to Commercial Engineering, Harrison, New Jersey.

Type to be Replaced	Similar RCA Type	Type to be Replaced	Similar RCA Type
CE-1V(A-D)	930, 1P40	HY-18	806
CE-2(A-D)	917, 919	FV-20	8000
2B22	559	T-20	1623
2C38	2C39-A	TV-20	810
2E25	2E24	TZ-20	809
2E30	5618	PJ-21	5556
3B27	836	CE-22(A-D)	1P41
3B28	866-A	PJ-22	917
3C21	838	X-22	1616
3C24	1623	KU-23	806
3-25A3	809	RK-23	802
3-50A4	811-A	RK-23A	802
3-75A3	8005	24-G	808
3-250A4	806	HY-25	809
3-450A4	833-A	25T	809
3-1000A2	8000	RK-27	806
3-1000A4	810	FG-27A	5559
3X2500A3	5762/7C24	HY-30Z	809
4C21	211	CE-31V	919
		FG-33	5728/FG-67
4C22	8005	35T	811-A
4X150G	4X150A	35TG	808
CE5(A-D)	927	CE-36(A-D)	927
5C24	8000	RK-36	806
5D24	4-250A/5D22	RK-37	808
6D22	4X500A	RK-38	806
WT-6	6L6	HY-40	812-A
7C20	5762/7C24	T-40	812-A
7C25	5762/7C24	TZ-40	811-A
7C27	5762/7C24	HY-40Z	811-A
HY-12	806	RK-41	807
RK-12	809	RK-46	804
CE-13	868	RK87	814
CE-13V	917	RK-48A	813
G-15F	927	SR-50	917

# RCA INTERCHANGEABILITY DIRECTORY OF TUBES FOR COMMUNICATIONS AND INDUSTRY

## Similar Types (cont'd)

RCA types shown below are not directly interchangeable with the types to be replaced because of mechanical and/or electrical differences. For more information as to degree of interchangeability, refer to respective tube data or write to Commercial Engineering, Harrison, New Jersey.

Type to be Replaced	Similar RCA Type	Type to be Replaced	Similar RCA Type
HY-51A	830-B	100R	8020
HY-51B	830-B	100TH	810
HY-51Z	838	100TL	8000
RK-51	830-B	111-H	812-A
SR-51	926	ZB-120	838
RK-52	811-A	FI-23A	806
53AWB	927	HF-125	8005
SR-53	917	T-125	810
HK-54	808	F-127A	810
54-XH	3API-A	F-128A	851
T-55	8005	HF-130	835
HY-57	812-A	HF-140	211
R-58A	927	I43D	2X2-A
58AWB	927	GL-146	805
59D	929	A8-150	845
CE-60	917	TW-150	810
HF-60	8005	150P	803
HY-60	807	150T	806
SK-60	868	152TH	806
T-60	8005	152TL	806
R61BV	929	GL-152	805
RK-63	806	HK-154	808
SK-63	918	T-155	806
RK-64	807	C-200	810
R64AV	925	HF-200	8000
HY-69	1624	T-200	806
V-70-D	8005	C-201	805
R71A	930, 1P40	C-202	805
R71AV	925	HD203-A	805
71D	929	HD-203C	805
FP-85	8020	HF-203H	8003
FP-85A	8020	WE-205D	10-Y
R85A	928	WE-205E	10-Y
CE-91R	1P37	WT-210-0007	6L6
HF-100	8005	WT-210-0067	3C23

# RCA INTERCHANGEABILITY DIRECTORY OF TUBES FOR COMMUNICATIONS AND INDUSTRY

## Similar Types (cont'd)

RCA types shown below are not directly interchangeable with the types to be replaced because of mechanical and/or electrical differences. For more information as to degree of interchangeability, refer to respective tube data or write to Commercial Engineering, Harrison, New Jersey.

Type to be Replaced	Similar RCA Type	Type to be Replaced	Similar RCA Type
211B	211	WE-274A	5R4-GY
211C	835	WE-281A	46
HD-211C	805	T-282A	8000
211E	835	WE-284B	845
212E	849	WE-284D	845
WE-214E	217-C	WE-287A	5557
WE-217-A	80	WE-298A	862-A
WE-220C	892	300	806
Z-225	866-A	WE-301A	83
WE-231D	864	T-303C	8000
WE-241B	833-A	UE-303U	8000
WE-242C	211	UE-304A	204-A
T-249B	866-A	WE-304B	6AK5
WE-249A	866-A	CE-306	676
WE-249B	866-A	WE-307A	807
250TH	810	UE-310	801-A
250TL	806	WE-310A	6C6
HF-250	8000	UE-311CH	8000
WE-251A	851	UE-311T	8003
WE-252A	842	UE-311CT	8003
HK-253	217-C	WE-312A	828
HK-254	810	315A	673
WE-254B	865	319A	872-A
WE-255B	869-B	321A	673
HF-258B	866-A	323B	3C23
WE-259A	24-A	WE-339A	807
260A	860	WE-341AA	891-R
HF-261A	835	F-342A	858
WE-264A	864	343A	858
WE-2648, C	864	WE-348A	1620
266B	857-B	C-350	807
WE-266C	857-B	WE-350B	807
WE-267B	872-A	353A	872-A
WE-268A	801-A	HK-354C	806
WE-271A	843	HK-354D	806



# RCA INTERCHANGEABILITY DIRECTORY OF TUBES FOR COMMUNICATIONS AND INDUSTRY

## Similar Types (cont'd)

RCA types shown below are not directly interchangeable with the types to be replaced because of mechanical and/or electrical differences. For more information as to degree of interchangeability, refer to respective tube data or write to Commercial Engineering, Harrison, New Jersey.

Type to be Replaced	Similar RCA Type	Type to be Replaced	Similar RCA Type
HK-354E	806	WL-739	927
HK-354F	806	WL-741	923
ML-356	5771	T-756	809
WE-356A	808	UE-812H	8005
WE-357A	833-A	T-814	806
F-357A	857-B	T-822	806
WE-359A	1C21	825	1623
WE-361A	835	C-849A	833-A
F-363A	892	C-849H	833-A
F-367A	673	F-857A	857-B
F-369B	869-B	861-A	861
F-376A	835	863	892
WE-393A	3C23	866-B	866-A
WE-394A	627	C-872	872-A
WE-395A	5823	UE-911CH	835
FJ-405	935	UE-942	842
WL-450	833-A	NL-1005	5551
WL-460	806	1603	1620, 5879
WL-463	806	1816-P4A	10FP4-A
UE-468	8000	1847	5527
WL-468	810	1851	6AC7
WL-471	8003	1899	2F21
WL-473	5762/7C24	2501-A3	3AP1-A
WL-481	8013-A	2501-C3	908-A
RH-507	1949	5514	811-A
DRJ-524	864	5516	2E24
GL-546	5696	5591	6AK5
578	8020	5604	889R-A
NL-615	5558	5606	892
WL-632A	5560	5654	6AK5
WL-632B	5560	5658	880
678	5563	5663	5696
NL-710	676	5666	889-A
NL-714	5557	5667	889R-A
WL-734	917	5668	892

# RCA INTERCHANGEABILITY DIRECTORY OF TUBES FOR COMMUNICATIONS AND INDUSTRY

## Similar Types (cont'd)

RCA types shown below are not directly interchangeable with the types to be replaced because of mechanical and/or electrical differences. For more information as to degree of interchangeability, refer to respective tube data or write to Commercial Engineering, Harrison, New Jersey.

Type to be Replaced	Similar RCA Type	Type to be Replaced	Similar RCA Type
5669	892-R	6156	4-250A/5D22
5685/C6J	676	6333	892
5686	5763	6336	6080
5695	816	6346	5551
5720/FG-33	5728/FG-67	6347	5552
5725	6AS6	6348	5553
5736	5726/7C24	6394	6082
5788	5555	6445	892-R
5891	5671	6446	892
5918	5770	6447	892-R
5934	579-B	6626	6073
5959	6130/3C45	6627	6074
6140/423A	5651	AX9911	6130/3C45
6155	4D21/4-125A		

# RCA RADIO BATTERIES

## Radio-Engineered for Extra Listening Hours

RCA Type	Volts		Replaces		NEDA Type No.	Max. Overall Dimensions		
	A	B	Eve-ready	Burgess		L	W. or Dia.	Ht.

(For socket and terminal information see pages 97 and 98)

### PORTABLE "A" TYPES

VS002	4 1/2	—	746	G3	7	4	1 3/8	4 1/4
VS004	1 1/2	—	742	4F	4	2 3/8	2 3/8	4 1/8
VS005	1 1/2	—	—	4FL	12	3 1/2	1 3/8	5 3/8
VS009	6	—	744	F4PI	6	2 5/8	2 5/8	4 1/4
VS010	6	—	718	2F4	1	3 3/8	2 1/2	5 1/2
VS011	6	—	747	2F4L	16	3 3/8	1 7/8	10 3/4
VS035	1 1/2	—	935	I	14	—	1	1 1/2
VS036	1 1/2	—	950	2R	13	—	1 1/8	2 3/8
VS045	7 1/2	—	717	CS	9	2 3/8	2	3 1/8
VS047	4 1/2	—	736	F3	3	4	1 3/8	4 1/8
VS048	6	—	724	Z4	2	1 7/8	1 7/8	2 3/8
VS049	1 1/2	—	720	2D	18	2 7/8	1 7/8	2 7/8
VS070	1 1/2	—	960P	8R	23	—	1 1/8	4 1/8
VS072	4 1/2	—	726	D3	19	3 1/2	1 7/8	2 1/2
VS129	7 1/2	—	713	B5	8	4 7/8	1 1/2	3
VS141	1 1/2	—	W353	2F	11	2 7/8	1 7/8	4 1/4
VS236	1 1/2	—	964	21R	20	—	1 3/8	4 7/8

### PORTABLE "B" TYPES

VS012	—	45	484	B30	207	4 1/8	2 5/8	5 7/8
VS013	—	45	482	M30	202	3 7/8	1 1/2	5 1/2
VS014	—	45	W359	A30	206	3 7/8	2 1/4	4 7/8
VS015	—	22 1/2, 45	738	Z30	205	3	2 1/4	4
VS016	—	67 1/2	467	XX45	200	2 3/4	1 3/8	3 3/4
VS055	—	45	455	XX30	201	2 1/2	1	3 1/2
VS082	—	67 1/2	457	K45	203	2 1/2	1 1/8	2 7/8
VS086	—	45	415	U30	213	1 7/8	1 3/8	3 1/8
VS090	—	90	490	N60	204	3 1/2	1 3/8	3 3/4
VS215	—	67 1/2	—	P45M	211M	1 1/2	1	5 7/8
VS216	—	67 1/2	—	P45M	211M	1 1/2	1 3/8	5 3/8
VS217	—	75	437	XX50	212	1 1/2	1 3/8	6 1/4
VS218	—	67 1/2	477	P45	211P	1 1/2	1	5 7/8
VS219	—	90	479	P60	214	1 1/2	1 3/8	7 1/2

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# RCA RADIO BATTERIES

## PORTABLE "A-B" PACKS

RCA Type	Volts		Replaces		NEDA Type No.	Max. Overall Dimensions		
	A	B	Eve-ready	Burgess		L	W. or Dia.	Ht.
VS019	7 1/2, 9	90	753	F6A60	401	9 1/2	2 3/4	4 3/8
VS038	7 1/2	63	W367	G5A42	408	8 3/8	2 3/4	4 1/8
VS043	1 1/2	90	—	5DA60	409	5 1/2	2 1/2	7 1/8
VS046	6	75	—	G4B50	422	12 3/8	2 3/4	4 1/8
VS047	9	90	752	G6B60	400	13 3/8	2 3/4	4 7/8
VS050	6, 7 1/2	75	755	T5Z50	403	8 7/8	2 7/8	3 1/2
VS052	1 1/2	61 1/2	—	4GA41	423	9 3/8	2 1/2	3 7/8
VS053	1 1/2	63	W366	4GA42	407	9 1/8	2	4 3/4
VS054	1 1/2	90	W369	6TA60	410	10	2 1/8	4 1/2
VS057W	7 1/2, 9	90	756	T6Z60	405	8 1/2	2 7/8	3 3/4
VS058	9	90	757	F6A60P	406	9 1/2	2 3/4	4 3/8
VS059	9	90	756P	T6Z60P	428	8 1/2	2 7/8	3 3/4
VS060	7 1/2	75	—	T5Z50P	431	8 7/8	2 7/8	3 1/2
VS064	1 1/2	90	729	4TZ60	425	7 3/4	2 7/8	3 5/8

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RCA Type	Volts			Replaces		NEDA Type No.	Max. Overall Dimensions		
	A	B	C	Eve-ready	Burgess		L	W. or Dia.	Ht.

### FARM "A-B" AND "B" TYPES

VS022	1 1/2	90	—	759	17GD60	413	15 3/4	4 1/4	6 1/2
VS026	—	22 1/2, 45	—	W365P	2308PI	717	8 7/8	3 7/8	7 7/8
VS045	1 1/2	90	—	—	18GD60	426	12 7/8	5 3/8	6 1/2
VS119	7 1/2, 9	90	—	—	—	415	8 1/4	4 1/2	13 3/8

### FLASHLIGHT AND LANTERN TYPES

VS034	1 1/2	—	—	915	Z	15	—	1 7/8	2
VS035	1 1/2	—	—	935	I	14	—	1	1 1/2
VS036	1 1/2	—	—	950	2	13	—	1 7/8	2 3/8
VS040C	6	—	—	510F	F4H	908	2 1/2	2 1/2	4 7/8
VS040S	6	—	—	510S	F4BP	915	2 1/2	2 1/2	4 7/8
VS073	1 1/2	—	—	—	N	910	—	1 7/8	1 7/8
VS074	1 1/2	—	—	912	7	24	—	7/8	14 9/16
VS138	3	—	—	W357	4F2H	901	3 3/8	2 1/2	5 7/8

(For socket and terminal information see pages 97 and 98)

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# RCA RADIO BATTERIES

## INDUSTRIAL AND SPECIAL-PURPOSE BATTERIES

RCA Type	Volts			Replaces		NEDA Type No.	Max. Overall Dimensions		
	A	B	C	Eve-ready	Burgess		L	W. or Dia.	Ht.
VS006C	1 1/2	—	—	61GN	61GN	914	—	2 5/8	6 5/8
VS006S	1 1/2	—	—	61GN	61GN	905	—	2 5/8	6 7/8
VS028	—	—	4 1/2	781	5360	714	2 3/8	1 1/2	2 1/2
VS029	—	—	7 1/2 □	773	5540	713	3 3/4	1 1/2	2 1 1/2
VS030	—	—	3, 4 1/2	771	2370PI	718	3 1 1/2	1 3/8	2 1/2
VS031	—	—	22 1/2 ♦	768	5156PI	721	4	2 1/2	3
VS039	6	—	—	461	S461	907	10 3/8	2 1/2	7 3/8
VS040S	6	—	—	510S	F4BP	915	2 1 1/2	2 1 1/2	4 1/2
VS083	—	15	—	411	U10	208	1 3/4	5/8	1 1/2
VS084	—	22 1/2	—	412	U15	215	1 3/4	5/8	2
VS085	—	30	—	413	U20	210	1 3/4	5/8	2 1/2
VS087	per cell: 1.4 volts per stack: 21 volts			—	—	759	—	.491	.220
VS088	per cell: 1.4 volts per stack: 21 volts			—	—	760	—	.887	.226
VS093	—	300	—	493	U200	722	2 5/8	2 1/2	3 1 1/2
VS100	3	—	—	W352	F2BP	701	2 5/8	1 3/8	4 1/2
VS101	1 1/2	—	—	W354	2FBP	700	2 5/8	1 3/8	4 1/2
VS102	—	22 1/2	—	763	4156	710	3 3/8	2 1/8	2 3/4
VS103	6	—	—	706	4F4H	902	8 1/2	2 1 1/2	6 1/2
VS106	1 1/2	—	—	735	4FH	900	2 1 1/2	2 1 1/2	4 1/2
VS112	—	22 1/2, 45	—	W376	5308	709	4 1/8	2 5/8	5 1/2
VS114	—	22 1/2, 45	—	W350	Z30NX	711	3	1 1/2	4 1 1/2
VS126	—	22 1/2, 45	—	W365F	2308SC	723	8 1/8	3 1/4	7 1/2
VS127	—	22 1/2, 45	—	W363F	10308SC	716	8	4	7 3/8
VS127W	—	22 1/2, 45	—	—	10308SC	724	8	4	7 3/8
VS130	—	—	4 1/2 ♦♦	761T	2370ST	712	3 1 1/2	1 3/8	3
VS131	—	—	22 1/2 §	778	5156SC	708	4 1/8	2 1/2	3 3/8
VS133	4 1/2	—	—	703	S32	706	2 3/8	1 1/2	2 1/2
VS134	3	—	—	750	422	704	1 7/8	3/4	2 1/2
VS136	3	—	—	W356	2F2H	703	2 1 1/2	2 1 1/2	4 1/2
VS138	3	—	—	W357	4F2H	901	3 7/8	2 1 1/2	5 1/2
VS139	7 1/2	—	—	715	4FSH	903	7 1/4	4	6 1/2
VS140	9	—	—	716	4F6H	904	8 1/2	4 1/8	6 7/8
VS142	4 1/2	—	—	751	432	705	2	3/4	2 3/8
VS157	—	22 1/2, 45	—	W364F	21308SC	715	8 1/8	4 5/8	7 1 1/2

♦ National Electronic Distributors Association.

♣ Wax coated.

□ Other voltage taps: 1 1/2, 3, 4 1/2, 6.

♦ Other voltage taps: 3, 4 1/2, 16 1/2.

♦♦ Other voltage taps: 1 1/2, 3.

§ Other voltage taps: 3, 4 1/2, 6, 9, 10 1/2, 16 1/2.

## TERMINAL GUIDE FOR RCA BATTERIES

Battery Type	Terminals	Battery Type	Terminals
VS002	Fig. 2	VS070	Fig. 1
VS004	Fig. 1	VS072	Fig. 2
VS005	Fig. 1	VS073	Flashlight
VS006C	2 Fahnestock Clips	VS074	Flashlight
VS006S	2 Screw Terminals	VS082	2 Snap Terminals
VS009	Fig. 3	VS083	Flashlight
VS010	Fig. 3	VS084	Flashlight
VS011	Fig. 3	VS085	Flashlight
VS012	Fig. 7	VS086	2 Snap Terminals
VS013	Fig. 6	VS087	{ Top and Bottom Surfaces
VS014	Fig. 7	VS088	
VS015	Fig. 8	VS090	2 Snap Terminals
VS016	2 Snap Terminals		2 Flush-Pin
VS019	Fig. 14	VS093	Jack-Terminals
VS022	Fig. 12	VS100	2 Screw
VS026	Fig. 5	VS101	2 Screw
VS028	2 Screw Terminals	VS102	2 Screw
VS029	5 Screw Terminals, 1 Pigtail	VS103	2 Screw
VS030	Fig. 9	VS106	2 Screw
VS031	Fig. 10	VS112	3 Screw
VS034	Flashlight	VS114	3 Screw
VS035	Flashlight	VS119	Fig. 13
VS036	Flashlight	VS126	3 Fahnestock Clips
VS038	Fig. 15	VS127	3 Fahnestock Clips
VS039	2 Screw Terminals	VS127W	3 Fahnestock Clips
VS040C	2 Coil-Spring Terminals	VS129	Fig. 4
VS040S	2 Screw Terminals	VS130	4 Screw
VS043	Fig. 12	VS131	8 Fahnestock Clips
VS045	Fig. 11	VS133	2 Flat-Spring Terminals
VS046	Fig. 17	VS134	2 Flat-Spring Terminals
VS047	Fig. 18	VS136	2 Screw
VS050	Fig. 16	VS138	2 Fahnestock Clips
VS052	Fig. 19	VS139	2 Screw
VS053	Fig. 19	VS140	2 Screw
VS054	Fig. 12	VS141	Fig. 1
VS055	2 Snap Terminals	VS142	2 Flat-Spring Terminals
VS057W	Fig. 14	VS157	3 Fahnestock Clips
VS058	Fig. 18	VS215	2 Snap Terminals
VS059	Fig. 18	VS216	2 Snap Terminals
VS060	Fig. 20	VS217	2 Snap Terminals
VS064	Fig. 12	VS218	2 Snap Terminals
VS065	Fig. 4	VS219	2 Snap Terminals
VS067	Fig. 2	VS236	Flashlight
VS068	Flashlight		
VS069	Fig. 1		

# TERMINAL PATTERNS FOR RCA BATTERIES

<p>FIG. 1 "A"</p> <p>-A +1.5</p> <p>RETMA 101</p>	<p>FIG. 2 "A"</p> <p>-A +4.5</p> <p>RETMA 103</p>	<p>FIG. 3 "A"</p> <p>-A +8</p> <p>RETMA 104</p>
<p>FIG. 4 "A"</p> <p>-A +7.5</p> <p>RETMA 105</p>	<p>FIG. 5 "B"</p> <p>-B</p> <p>RETMA 107</p>	<p>FIG. 6 "B"</p> <p>-B</p> <p>RETMA 110</p>
<p>FIG. 7 "B"</p> <p>-B</p> <p>RETMA 111</p>	<p>FIG. 8 "B"</p> <p>-B</p> <p>RETMA 111</p>	<p>FIG. 9 "C"</p> <p>-4.5</p> <p>RETMA 112</p>
<p>FIG. 10 "C"</p> <p>-22.5</p> <p>RETMA 113</p>	<p>FIG. 11 "A-B"</p> <p>+1.5A</p> <p>RETMA 115</p>	<p>FIG. 12 "A-B"</p> <p>+90B</p> <p>RETMA 115</p>
<p>FIG. 13 "A-B"</p> <p>+90B</p> <p>RETMA 115</p>	<p>FIG. 14 "A-B"</p> <p>+90B</p> <p>RETMA 116</p>	<p>FIG. 15 "A-B"</p> <p>+90B</p> <p>RETMA 116</p>
<p>FIG. 16 "A-B"</p> <p>+90B</p> <p>RETMA 116</p>	<p>FIG. 17 "A-B"</p> <p>+90B</p> <p>RETMA 116</p>	<p>FIG. 18 "A-B"</p> <p>+90B</p> <p>RETMA 116</p>
<p>FIG. 19 "A-B"</p> <p>+90B</p> <p>RETMA 116</p>	<p>FIG. 20 "A-B"</p> <p>+90B</p> <p>RETMA 116</p>	<p>FIG. 21 "A-B"</p> <p>+90B</p> <p>RETMA 116</p>

## RCA BATTERY REPLACEMENT GUIDE

For 1948 to 1955 Portable Radios

Make and Model	RCA Battery			Make and Model	RCA Battery		
	A	AB	B		A	AB	B
<b>Admiral</b>							
L76P5	1-VS005		2-VS014	Admiral (cont'd)			
N28-G5	2-VS036		1-VS016	7P32		1-VS019	
4B21	1-VS065		1-VS216	7P33		1-VS019	
4B22	1-VS065		1-VS216	7P34		1-VS019	
4B24	1-VS065		1-VS216	27-G4	2-VS036		1-VS013
4B28	1-VS065		1-VS216	28-G5	2-VS036		1-VS016
4B29	1-VS065		1-VS216	29-G5	2-VS036		1-VS016
4D11	2-VS036		1-VS016	51D4		1-VS054	
4D12	2-VS036		1-VS016	76-P5	1-VS005		2-VS014
4D13	2-VS036		1-VS016	76-XP5	1-VS005		2-VS014
4R1	1-VS065		1-VS016	77-P5	1-VS005		2-VS014
4R11	1-VS065		1-VS016	77-XP5	1-VS005		2-VS014
4R12	1-VS065		1-VS016	78-P6	1-VS004		2-VS013
4T1	1-VS065		1-VS016	78-XP6	1-VS004		2-VS013
4T11	1-VS065		1-VS016	79-P6	1-VS004		2-VS013
4Y12	1-VS065		1-VS016	79-XP6	1-VS004		2-VS013
4Y16	1-VS065		1-VS016	231-4F	1-VS004		2-VS014
4Y18	1-VS065		1-VS016	231-4Z	1-VS004		2-VS014
4W1	1-VS065		1-VS016	3114D-PH	1-VS004		2-VS013
4W10	1-VS065		1-VS016	319-4Z	1-VS005		2-VS014
4W19	1-VS065		1-VS016	331-4F	1-VS004		2-VS014
4X1	2-VS236		1-VS216	335-4Z	1-VS004		2-VS013
4Y12	1-VS065		1-VS016	635-4Z	1-VS004		2-VS013
4Y13	1-VS065		1-VS016	1035-4Z	1-VS004		2-VS013
4Y19	1-VS065		1-VS016	1644-D	1-VS004		2-VS013
4X11	2-VS236		1-VS216	<b>Air-Castle (Spiegel)</b>			
4Z1	1-VS065		1-VS016	BP115	1-VS010		2-VS013
4Z12	1-VS065		1-VS016	DM700	4-VS036		1-VS016
4Z14	1-VS065		1-VS016	EV760	4-VS036		1-VS016
4Z18	1-VS065		1-VS016	G-521	2-VS002		2-VS013
4Z19	1-VS065		1-VS016	76-74T	1-VS002		1-VS016
5F11	1-VS065		1-VS016	102-B	1-VS002		1-VS090
5F12	1-VS065		1-VS016	213	1-VS002		1-VS016
5H1		1-VS019		738B5400	1-VS072		1-VS090
5K32		1-VS057W		5027	2-VS002		2-VS013
5K34		1-VS057W		5028	2-VS036		1-VS016
5K38		1-VS057W		5029	2-VS036		1-VS016
5K39		1-VS057W		132564		1-VS022	
6C11		1-VS019		147114	5-VS036		1-VS016
6E1		1-VS019		<b>Airchief (Firestone)</b>			
6E1N		1-VS019		4C1	2-VS036		1-VS016
6F11		1-VS019		4C5	2-VS036		1-VS016
6F12		1-VS019		4C13	5-VS036		1-VS016
6P32		1-VS019		4C16	1-VS067		1-VS090
6Y1		1-VS019		4C17	1-VS067		1-VS090
6Y18		1-VS019					
6Y19		1-VS019					



# RCA BATTERY REPLACEMENT GUIDE

For 1948 to 1955 Portable Radios  
(Continued)

Make and Model	RCA Battery		
	A	AB	B
<b>Airchief (Firestone) (cont'd)</b>			
4C18	1-VS019		
4C19	1-VS067	1-VS090	
4C20	1-VS067	1-VS090	
4C21	2-VS067	2-VS013	
4C22	2-VS236	1-VS216	
4C23	1-VS057W		
4C24	1-VS057W		
<b>Air King</b>			
A410	2-VS036	1-VS016	
A425	1-VS036	1-VS016	
A426	1-VS036	1-VS055	
A427	1-VS036	1-VS055	
A520	3-VS036	1-VS016	
520A	1-VS129	1-VS016	
3905	1-VS004	1-VS015	
<b>Airline (Mont-Ward)</b>			
B4GCB-			
1062A	1-VS036	1-VS016	
G5E-1077A	2-VS036	1-VS216	
G5E-1078A	2-VS036	1-VS216	
14BD9-815	4-VS036	1-VS016	
I5BD11-917	1-VS019		
25GHM-			
1073A	1-VS019		
35GHM-			
1073B	1-VS019		
35GHM-			
1073C	1-VS019		
35GHM-			
1074A	3-VS036	1-VS217	
62TL-1062	1-VS036	1-VS016	
64WG-			
1054A	1-VS019		
74KR-			
1210A	1-VS019		
74WG-			
1054A	1-VS019		
74WG-			
1056A	1-VS019		
84WG-			
1060A	4-VS036	1-VS016	
94WG-			
1059A	1-VS019		
1064A	1-VS036	1-VS016	

Make and Model	RCA Battery		
	A	AB	B
<b>Airline (M-W) (Cont'd)</b>			
1067	2-VS036	1-VS016	
1068	1-VS036	1-VS090	
1070	1-VS019		
1072	1-VS036	1-VS090	
<b>Andrea</b>			
8663	2-VS067	2-VS013	
P163	2-VS002	2-VS013	
<b>Arvin</b>			
140P	1-VS019		
240P	3-VS036	1-VS016	
241P	4-VS036	1-VS016	
244P	4-VS036	1-VS016	
250P	1-VS019		
350P	6-VS035	1-VS090	
350PB	6-VS035	1-VS090	
350PL	6-VS035	1-VS090	
351P	6-VS035	1-VS090	
351PB	6-VS035	1-VS090	
351PL	6-VS035	1-VS090	
352PL	6-VS035	1-VS090	
353PL	6-VS035	1-VS090	
446P	2-VS036	1-VS016	
447P	2-VS036	1-VS016	
448P	6-VS035	1-VS016	
449P	6-VS035	1-VS016	
650P	6-VS035	2-VS055	
652P Series	6-VS035	2-VS055	
654P Series	6-VS035	2-VS055	
746P	1-VS236	1-VS216	
747P	1-VS236	1-VS216	
852P	5-VS035	2-VS055	
854P	5-VS035	2-VS055	
<b>Automatic</b>			
Tom Thumb (Buddy)	2-VS036	1-VS016	
Tom Thumb (Camera)	2-VS036	1-VS016	
(Bike) B44	2-VS036	1-VS016	
C-51	2-VS067	2-VS013	
C-54	2-VS067	2-VS013	
C-60	1-VS011	2-VS013	
C65	1-VS011	2-VS013	

# RCA BATTERY REPLACEMENT GUIDE

For 1948 to 1955 Portable Radios  
(Continued)

Make and Model	RCA Battery		
	A	AB	B
<b>Bendix</b>			
PMR-3A	1-VS036	1-VS016	
PAR-80	1-VS019		
PMR-3A	1-VS036	1-VS016	
55X4	4-VS035	1-VS016	
416A	1-VS022		
687A	1-VS019		
<b>Capehart</b>			
10	1-VS036	1-VS016	
15	1-VS057W		
P213	2-VS236	1-VS216	
1P55	2-VS236	1-VS216	
<b>Cavalier</b>			
4P3	1-VS057W		
<b>Clarion</b>			
13201	1-VS022		
13203	1-VS022		
<b>CBS-Columbia</b>			
525	1-VS129	1-VS016	
526	1-VS129	1-VS016	
5110	2-VS035	1-VS216	
5220	1-VS065	1-VS216	
<b>Concord</b>			
1-611	2-VS002	2-VS013	
<b>Continental</b>			
B-5400	1-VS072	1-VS090	
<b>Coronado</b>			
RA37-43-			
9855	2-VS236	1-VS216	
RA33-9856D	1-VS019		
RA42-9850A	2-VS036	1-VS016	
35RA4-43-			
9856A	1-VS019		
94RA31	1-VS002	1-VS106	
<b>Crosley</b>			
9-101	1-VS022		
9-302	1-VS019		
9-304	2-VS036	1-VS016	
9-307M	1-VS057W		
10-304M	1-VS067	1-VS090	

Make and Model	RCA Battery		
	A	AB	B
<b>Crosley (cont'd)</b>			
10-307M	1-VS057W		
10-308	1-VS057W		
10-309	1-VS057W		
11-301U	1-VS036	1-VS016	
11-302U	1-VS036	1-VS016	
11-303U	1-VS036	1-VS016	
11-304U	1-VS036	1-VS016	
11-305U	1-VS036	1-VS016	
F-100	2-VS236	1-VS217	
F110BE	2-VS236	1-VS217	
F110BK	2-VS236	1-VS217	
F110CE	2-VS236	1-VS217	
F110GN	2-VS236	1-VS217	
F110RD	2-VS236	1-VS217	
F115	1-VS058		
<b>Detrola</b>			
610-A	1-VS022		
3891	2-VS002	2-VS013	
3892	2-VS002	2-VS013	
3893	2-VS002	2-VS013	
<b>Dewald</b>			
A-507	2-VS067	2-VS013	
B-400	2-VS036	1-VS016	
B-402	1-VS002	1-VS016	
B-504	1-VS002	1-VS016	
B-515	1-VS002	1-VS016	
C-504	1-VS067	1-VS016	
C-515	1-VS067	1-VS016	
D-508	2-VS002	2-VS013	
D-517	1-VS067	1-VS016	
D-517A	1-VS067	1-VS090	
F-504	1-VS022		
G-408	2-VS236	1-VS216	
H-527	1-VS065	1-VS216	
H-528	1-VS065	1-VS216	
<b>Dynavox</b>			
3P801	2-VS036	1-VS016	
<b>Emerson</b>			
CE-259	1-VS004	2-VS013	
CE-263	1-VS004	2-VS013	

# RCA BATTERY REPLACEMENT GUIDE

For 1948 to 1955 Portable Radios  
(Continued)

Make and Model	RCA Battery			Make and Model	RCA Battery		
	A	AB	B		A	AB	B
<b>Emerson (cont'd)</b>				<b>Emerson (cont'd)</b>			
CE-265	1-VS004	2-VS013		432	1-VS036	1-VS016	
CE-275	1-VS004	2-VS013		505	2-VS067	2-VS013	
CT-275	1-VS004	2-VS013		508	1-VS036	1-VS016	
CX-263	1-VS004	2-VS013		523	2-VS067	2-VS013	
CX-283	1-VS004	2-VS013		536	2-VS067	2-VS013	
CX-284	1-VS004	2-VS013		536A	2-VS067	2-VS013	
CX-292	1-VS004	2-VS013		551A	2-VS067	2-VS013	
CX-305	2-VS067	2-VS013		553A	2-VS067	2-VS013	
CX-308	1-VS004	2-VS013		558	2-VS036	1-VS016	
DA-338	2-VS067	2-VS013		559A	1-VS067	1-VS016	
DC-308	2-VS067	2-VS013		559AA	1-VS067	1-VS090	
DF-302	2-VS067	2-VS013		560	1-VS067	1-VS016	
DF-306	2-VS067	2-VS013		560A	1-VS067	1-VS090	
DJ-310	2-VS067	2-VS013		567	1-VS067	1-VS090	
DJ-311	2-VS067	2-VS013		568A		1-VS019	
DJ-312	2-VS067	2-VS013		570	3-VS036	1-VS016	
DU-379	2-VS036	1-VS016		574	3-VS036	1-VS016	
DU300	2-VS036	1-VS016		575		1-VS019	
EA312	2-VS067	2-VS013		575A		1-VS019	
EA338	2-VS067	2-VS013		580	3-VS036	1-VS016	
EA357A	2-VS067	2-VS013		584	1-VS068	1-VS090	
EA385	2-VS067	2-VS013		613A	1-VS036	1-VS016	
EA389	2-VS067	2-VS013		640	1-VS036	1-VS016	
EA402	2-VS067	2-VS013		643A	2-VS067	2-VS013	
EA1341	2-VS067	2-VS013		645	1-VS069	1-VS016	
EE390	2-VS067	2-VS013		646A	1-VS072	1-VS090	
EE401	2-VS067	2-VS013		646B	1-VS072	1-VS090	
EF363	2-VS067	2-VS013		656B		1-VS019	
FU424	2-VS067	2-VS013		657B		1-VS019	
FU427	2-VS067	2-VS013		704	2-VS236	1-VS216	
FU428	2-VS067	2-VS013		705	2-VS236	1-VS216	
FF411	2-VS036	1-VS016		745B		1-VS057W	
33	2-VS067	2-VS013		746B		1-VS057W	
34	2-VS067	2-VS013		747	1-VS035	1-VS086	
302	2-VS067	2-VS013		754		1-VS057W	
338	2-VS067	2-VS013		754D		1-VS057W	
339	2-VS067	2-VS013		790B	1-VS072	1-VS090	
340	2-VS067	2-VS013		801	2-VS236	1-VS216	
341	2-VS067	2-VS013					
357	2-VS067	2-VS013		<b>Fada</b>			
363	2-VS067	2-VS013		P80	2-VS036	1-VS016	
401	2-VS067	2-VS013		P82	2-VS067	2-VS013	
402	2-VS067	2-VS013		P100	2-VS067	2-VS013	
424	2-VS067	2-VS013		P111	3-VS036	1-VS016	
427	2-VS067	2-VS013		P130	2-VS002	2-VS013	
428	2-VS067	2-VS013					

# RCA BATTERY REPLACEMENT GUIDE

For 1948 to 1955 Portable Radios  
(Continued)

Make and Model	RCA Battery			Make and Model	RCA Battery		
	A	AB	B		A	AB	B
<b>Firestone</b>				<b>General Electric (cont'd)</b>			
4C22	2-VS236	1-VS216		145	2-VS036	1-VS016	
4C24		1-VS019		150		1-VS019	
				165		1-VS019	
<b>Garod</b>				254	2-VS067	2-VS013	
4B1	3-VS036	1-VS016		600		1-VS057W	
5D3	5-VS036	1-VS016		601		1-VS057W	
5D4	5-VS036	1-VS016		602		1-VS057W	
5D5	5-VS036	1-VS016		603		1-VS057W	
6E1	2-VS002	2-VS013		604		1-VS057W	
<b>General Electric</b>				605	1-VS065	1-VS016	
G8400	1-VS004	2-VS013		606	1-VS065	1-VS016	
G8440	1-VS004	2-VS013		607	1-VS065	1-VS016	
H8401	1-VS004	2-VS013		608	1-VS065	1-VS016	
H8402	1-VS004	2-VS015		610		1-VS057W	
H8403	1-VS004	2-VS015		611		1-VS057W	
H8408	1-VS004	2-VS013		612	1-VS065	1-VS016	
H8410	1-VS004	2-VS015		613	1-VS065	1-VS016	
H8411	1-VS004	2-VS015		614		1-VS019	
H8412	1-VS011	2-VS013		615		1-VS019	
H8504	1-VS010	2-VS013		620	2-VS236	1-VS217	
H8505	1-VS010	2-VS013		621	2-VS236	1-VS217	
H8508	1-VS010	2-VS013		622	2-VS236	1-VS217	
H8X467	1-VS004	2-VS015		625	1-VS065	1-VS016	
JB410	2-VS036	1-VS016		626	1-VS065	1-VS016	
JB508	1-VS011	2-VS013		630	2-VS236	1-VS016	
JB513	1-VS011	2-VS013		631	2-VS236	1-VS016	
JB514	1-VS011	2-VS013		632	2-VS236	1-VS016	
JB523	1-VS011	2-VS013		640		1-VS019	
JB524	1-VS011	2-VS013		641		1-VS019	
JB630	2-VS067	2-VS013		650		1-VS019	
JB631	2-VS067	2-VS013		<b>Gilfillan</b>			
LB412	2-VS036	1-VS016		<b>5L-66B Series</b>			
LB502	2-VS036	1-VS016		688D			
LB603	2-VS036	1-VS016					
LB612	2-VS036	1-VS016		<b>Globe</b>			
LB641	2-VS036	1-VS016		454			
LB642	2-VS036	1-VS016		456			
LB673	2-VS067	2-VS013					
LB700	2-VS067	2-VS013		<b>Grantline</b>			
LB701	2-VS067	2-VS013		508-7			
LB702	2-VS067	2-VS013		5-VS036			
LB703	2-VS067	2-VS013					
140	2-VS036	1-VS016		<b>Hailcrafters</b>			
141		1-VS057W		S72			
143		1-VS057W		S-72-1950			
				S72L			
				5R24			
				1-VS065			
				1-VS090			



# RCA BATTERY REPLACEMENT GUIDE

For 1948 to 1955 Portable Radios

(Continued)

Make and Model	RCA Battery A	RCA Battery AB	RCA Battery B
<b>Hallcrafters (cont'd)</b>			
SR40	1-VS065	1-VS090	
SR1000		1-VS058	
TW25	1-VS065	1-VS090	
TW500		1-VS058	
TW600		1-VS058	
TW1000		1-VS047	
TW2000		1-VS047	
<b>Jewel</b>			
304	1-VS036	1-VS016	
349	1-VS065	1-VS090	
801	1-VS036	1-VS016	
814	1-VS036	1-VS016	
901	1-VS036	1-VS016	
949	1-VS065	1-VS090	
5007	1-VS065	1-VS016	
5010	1-VS065	1-VS016	
5050	1-VS065	1-VS090	
5310	2-VS236	1-VS216	
<b>Knight</b>			
4D450	3-VS036	1-VS016	
4J707	1-VS065	1-VS090	
4J708	2-VS067	2-VS013	
4K717	2-VS236	1-VS216	
5C290	2-VS067	2-VS013	
5D455	5-VS036	1-VS016	
5F565	2-VS036	1-VS016	
6A127	2-VS067	2-VS013	
6K718	2-VS067	2-VS013	
145-D	5-VS036	1-VS016	
156-D	3-VS036	1-VS016	
449		1-VS019	
<b>Learadio</b>			
RM402C		1-VS019	
<b>Lewyt</b>			
711	2-VS002	2-VS013	
<b>Magitone</b>			
510	1-VS036	1-VS016	
<b>Majestic</b>			
4L1	2-VS236	1-VS217	
4P1	2-VS036	1-VS090	
5M1	1-VS236	1-VS218	

# RCA BATTERY REPLACEMENT GUIDE

For 1948 to 1955 Portable Radios

(Continued)

Make and Model	RCA Battery A	RCA Battery AB	RCA Battery B
<b>Meck</b>			
CM500	5-VS036	2-VS055	
DM700	4-VS036	1-VS016	
EV760	4-VS036	1-VS016	
<b>Mitchell</b>			
1256	1-VS067	1-VS090	
1276	1-VS067	1-VS090	
1277	1-VS067	1-VS090	
<b>Mitchell Industries</b>			
AT-92-50	2-VS036	2-VS016	
(Airboy Sr.)			
1276	1-VS067	1-VS090	
1277	1-VS067	1-VS090	
1287		1-VS019	
<b>Motorola (Galvin)</b>			
A1	2-VS036	1-VS016	
AR-96-23	2-VS036	1-VS016	
AT-99-22	1-VS009	2-VS013	
3A5	5-VS036	1-VS016	
5A1	2-VS036	1-VS016	
5A5	2-VS036	1-VS016	
5A7	2-VS036	1-VS016	
5A7A	2-VS036	1-VS016	
5A9 Series	2-VS036	1-VS016	
5J1	2-VS036	1-VS016	
5J1U	2-VS036	1-VS016	
5L1	2-VS036	1-VS016	
5L1U	2-VS036	1-VS016	
5M1	2-VS036	1-VS016	
5M1U	2-VS036	1-VS016	
5M2	2-VS036	1-VS016	
5M2U	2-VS036	1-VS016	
6L1		1-VS019	
6L2		1-VS019	
41D	1-VS004	2-VS013	
41D1	1-VS004	2-VS013	
41D2	1-VS004	2-VS013	
41H	1-VS004	2-VS013	
48L11	2-VS036	1-VS016	
49L11Q	2-VS036	1-VS016	
49L13Q	2-VS036	1-VS016	
51D	1-VS004	2-VS013	
51M1U	2-VS036	1-VS016	
51M2U	2-VS036	1-VS016	

Make and Model	RCA Battery A	RCA Battery AB	RCA Battery B
<b>Motorola (Galvin) (cont'd)</b>			
51D1	1-VS004	2-VS013	
51D2	1-VS004	2-VS013	
51F	1-VS004	2-VS015	
52D	1-VS004	2-VS013	
52D1	1-VS004	2-VS013	
52L	2-VS236	1-VS216	
52M Series	2-VS036	1-VS016	
53LC1	2-VS236	1-VS216	
53LC2	2-VS236	1-VS216	
53LC3	2-VS236	1-VS216	
54L1	2-VS036	1-VS216	
54L2	2-VS036	1-VS216	
54L3	2-VS036	1-VS216	
54L4	2-VS036	1-VS216	
54L5	2-VS036	1-VS216	
54L6	2-VS036	1-VS216	
57BP	2-VS067	2-VS013	
57BP1	2-VS067	2-VS013	
57BP1A	2-VS067	2-VS013	
57BP2	2-VS067	2-VS013	
57BP2A	2-VS067	2-VS013	
57BP3	2-VS067	2-VS013	
57BP3A	2-VS067	2-VS013	
57BP4	2-VS067	2-VS013	
57BP4A	2-VS067	2-VS013	
58L11	2-VS036	1-VS016	
59L11Q	2-VS036	1-VS016	
59L12Q	2-VS036	1-VS016	
59L14Q	2-VS036	1-VS016	
61-L11	2-VS067	2-VS013	
61-L12	2-VS067	2-VS013	
62L1U		1-VS057W	
62L2U		1-VS057W	
62L3U		1-VS057W	
63L1		1-VS057W	
63L2		1-VS057W	
63L3		1-VS057W	
63L5S		1-VS057W	
65BP	2-VS067	2-VS013	
65BP1	2-VS067	2-VS013	
65BP1A	2-VS067	2-VS013	
65BP2	2-VS067	2-VS013	
65BP2A	2-VS067	2-VS013	
65BP3	2-VS067	2-VS013	
65BP3A	2-VS067	2-VS013	
65BP4	2-VS067	2-VS013	

Make and Model	RCA Battery A	RCA Battery AB	RCA Battery B
<b>Motorola (Galvin) (cont'd)</b>			
65BP4A	2-VS067	2-VS013	
65L11	2-VS067	2-VS013	
65L12	2-VS067	2-VS013	
67L11		1-VS019	
68L11		1-VS019	
69L11		1-VS019	
<b>Norelco Philips</b>			
LX422AB	2-VS036	2-VS016	
LX527AB	7-VS036	2-VS015	
<b>Olympic</b>			
6-606	2-VS067	2-VS013	
6-606A	2-VS067	2-VS013	
6-606U	2-VS067	2-VS013	
7-526	2-VS067	2-VS013	
8-451	1-VS036	1-VS016	
8-452	2-VS036	1-VS016	
9-452	2-VS002	2-VS013	
445	2-VS236	1-VS217	
489	1-VS036	1-VS016	
<b>Philco</b>			
B650	2-VS236	1-VS217	
B652	2-VS236	1-VS217	
PT-87		1-VS038	
PT-88		1-VS038	
39-71T	1-VS004	2-VS013	
39-72T	1-VS004	2-VS013	
39-73T	1-VS004	2-VS013	
39-74T	1-VS004	2-VS013	
39-75		1-VS053	
39-504T	1-VS004	2-VS013	
40-PT63		1-VS053	
40-74T	1-VS004	2-VS013	
40-504T	1-VS004	2-VS013	
41-PT63		1-VS053	
41-841		1-VS019	
41-842T	2-VS067	2-VS013	
41-843T	2-VS067	2-VS013	
41-844T	2-VS067	2-VS013	
41-851		1-VS019	
41-853T	2-VS067	2-VS013	
41-854T	2-VS067	2-VS013	
41-8030		1-VS022	
42-PT-87		1-VS038	

# RCA BATTERY REPLACEMENT GUIDE

For 1948 to 1955 Portable Radios  
(Continued)

Make and Model	RCA Battery		
	A	AB	B
<b>Philco (cont'd)</b>			
42-PT-88	1-VS038		
42-842	2-VS067	2-VS013	
42-843	2-VS067	2-VS013	
42-844	2-VS067	2-VS013	
42-853	2-VS067	2-VS013	
42-854	2-VS067	2-VS013	
46-350	1-VS019		
46-131	1-VS022		
48-150	1-VS022		
48-300	1-VS019		
48-360	1-VS019		
48-601	1-VS057W		
48-602	1-VS057W		
49-101	1-VS019		
49-601	1-VS057W		
49-602	1-VS057W		
49-605	1-VS019		
49-607	1-VS019		
50-620	1-VS057W		
50-621	1-VS057W		
51-629	1-VS064		
51-631	2-VS036	1-VS016	
52-643	1-VS057W		
53-650	2-VS236	1-VS217	
53-651	2-VS036	1-VS016	
53-652	2-VS236	1-VS217	
53-656	1-VS057W		
53-658	1-VS057W		
<b>Philips</b>			
See Norelco Philips			
<b>Philmore Kit</b>			
300-3	1-VS072	1-VS090	
<b>Radiette</b>			
PR-2	3-VS036	1-VS016	
<b>RCA</b>			
AVR102	2-VS067	2-VS013	
BP10	1-VS036	1-VS016	
BP55	1-VS011	2-VS013	
BP56	1-VS011	2-VS013	
BP65	1-VS011	2-VS013	
BX6	1-VS019		
BX55	1-VS050		

Make and Model	RCA Battery		
	A	AB	B
<b>RCA (cont'd)</b>			
BX57	1-VS050		
B411	1-VS036	1-VS016	
P5	1-VS004	2-VS013	
QB55	1-VS022		
QB55X	1-VS022		
QB60	1-VS022		
2B400	2-VS236	1-VS216	
2B401	2-VS236	1-VS216	
2B402	2-VS236	1-VS216	
2B403	2-VS236	1-VS216	
2B404	2-VS236	1-VS216	
2B405	2-VS236	1-VS216	
2BX63	1-VS057W		
3BX51	1-VS050		
3BX52	1-VS050		
3BX53	1-VS050		
3BX54	1-VS050		
3BX61	1-VS047		
3BX671	1-VS047		
3BX672	1-VS047		
4QB3	1-VS022		
4QB3X	1-VS022		
5BX41	2-VS036	1-VS216	
6B4A	1-VS036	1-VS016	
6B4B	1-VS036	1-VS016	
6B5	1-VS036	1-VS016	
6BX5	2-VS036	1-VS216	
6BX6A	2-VS036	1-VS216	
6BX6B	2-VS036	1-VS216	
6BX6C	2-VS036	1-VS216	
6BX8A	1-VS050		
6BX8B	1-VS050		
6BX41A	2-VS036	1-VS216	
6BX41B	2-VS036	1-VS216	
6BX63	1-VS057W		
8BX5	1-VS050		
8BX6	1-VS019		
8BX54	1-VS050		
8BX55	1-VS050		
8B41	1-VS036	1-VS016	
8B42	1-VS036	1-VS016	
8B43	1-VS036	1-VS016	
8F43	1-VS022		
9BX5	1-VS050		
9BX6	1-VS019		
9BX55	1-VS050		

# RCA BATTERY REPLACEMENT GUIDE

For 1948 to 1955 Portable Radios  
(Continued)

Make and Model	RCA Battery		
	A	AB	B
<b>RCA (cont'd)</b>			
9BX56	1-VS065	1-VS016	
15BP			
Series	1-VS004	2-VS013	
25BP	1-VS004	2-VS013	
26BP	2-VS067	2-VS013	
36BP	2-VS067	2-VS013	
54B1	1-VS036	1-VS016	
54B1-N	1-VS036	1-VS016	
54B2	1-VS036	1-VS016	
54B3	1-VS036	1-VS016	
54B5	1-VS036	1-VS016	
55F	1-VS022		
58B	1-VS036	1-VS016	
64F1	1-VS022		
64F2	1-VS022		
64F3	1-VS022		
65F	1-VS022		
66BX	1-VS019		
94BP4	1-VS004	2-VS013	
94BP61	1-VS004	2-VS013	
94BP62	1-VS004	2-VS013	
94BP64	1-VS004	2-VS013	
94BP66	1-VS004	2-VS013	
94BP80	1-VS004	2-VS013	
94BP81	1-VS004	2-VS013	
96GA	1-VS004	2-VS013	
<b>Raytheon</b>			
PR51	1-VS065	1-VS090	
PR51A	1-VS065	1-VS090	
PR52	1-VS065	1-VS090	
<b>Regal</b>			
BP47	1-VS036	1-VS016	
BP48	1-VS036	1-VS016	
P-175	2-VS002	2-VS013	
747	5-VS036	1-VS016	
777	5-VS036	1-VS016	
1500	1-VS022		
1877	1-VS002	1-VS016	
1878	1-VS067	1-VS016	
<b>Remier</b>			
93	1-VS004	2-VS015	
94	1-VS004	2-VS015	
95	1-VS004	2-VS015	
5400	5-VS036	1-VS016	
5410	5-VS036	1-VS016	

Make and Model	RCA Battery		
	A	AB	B
PP5461	5-VS036	2-VS055	
<b>Revere</b>			
400	1-VS065	1-VS016	
<b>Roland</b>			
4P2	2-VS035	1-VS216	
5P2	1-VS057W		
5P4	1-VS057W		
6P2	1-VS057W		
<b>Sentinel</b>			
1U312PG	1-VS067	1-VS090	
1U312PW	1-VS067	1-VS090	
1U316PM	1-VS067	1-VS016	
1U316PT	1-VS067	1-VS016	
1U335PG	1-VS067	1-VS090	
1U335PI	1-VS067	1-VS090	
1U335PM	1-VS067	1-VS090	
1U335PW	1-VS067	1-VS090	
285P	2-VS067	2-VS013	
312P	5-VS036	2-VS055	
312PG	1-VS067	1-VS090	
312PW	1-VS067	1-VS090	
316P	1-VS067	1-VS016	
319P	1-VS067	1-VS090	
326P	2-VS036	1-VS016	
335PG	1-VS067	1-VS090	
335PI	1-VS067	1-VS090	
335PM	1-VS067	1-VS090	
335PW	1-VS067	1-VS090	
345-P	1-VS002	1-VS090	
347P	2-VS036	1-VS216	
348P	1-VS067	1-VS090	
<b>Setchell-Carlson</b>			
447	1-VS019		
449	1-VS019		
501	3-VS036	1-VS013	
<b>Signal</b>			
141	1-VS036	1-VS055	
341A	1-VS067	1-VS016	
<b>Silvertone (Sears)</b>			
210	2-VS036	1-VS016	
215	2-VS036	1-VS016	
220	1-VS019		
225	1-VS019		



# RCA BATTERY REPLACEMENT GUIDE

For 1948 to 1955 Portable Radios  
(Continued)

Make and Model	RCA Battery			Make and Model	RCA Battery		
	A	AB	B		A	AB	B
<b>Westinghouse (cont'd)</b>				<b>Zenith (Cont'd)</b>			
423P4	2-VS236	1-VS217		4G800	1-VS036	1-VS016	
424P4	2-VS236	1-VS217		4G903	1-VS058		
425P4	2-VS236	1-VS217		4G903Y	1-VS058		
				4G908	1-VS058		
<b>Zenith</b>				4K400	1-VS004	2-VS013	
G500		1-VS047		4K400D	1-VS004	2-VS013	
G503		1-VS058		4K400L	1-VS004	2-VS013	
H412T		1-VS045		4K400M	1-VS004	2-VS013	
H500		1-VS047		4K400S	1-VS004	2-VS013	
H503		1-VS058		4K400Y	1-VS004	2-VS013	
J402		1-VS058		4K600	2-VS036	1-VS016	
J504		1-VS058		5G500		1-VS046	
J504Y		1-VS058		5G500R Series	1-VS047		
K401 Series	3-VS036	1-VS016		5G501	1-VS047		
L401	3-VS036	1-VS216		5G504	1-VS046		
L403 Series	2-VS236	1-VS216		5K603	1-VS046		
L406R		1-VS058		6G001Y	1-VS047		
L505		1-VS059		6G004Y	1-VS047		
L507		1-VS058		6G801	1-VS058		
L600	1-VS070	1-VS047		401	1-VS058		
				5416	1-VS004	2-VS013	

# RCA MINIATURE LAMPS

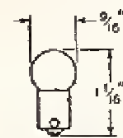
## FLASHLIGHT TYPES

Type No.	Filament		Bulb Outline*	Bead Color	Use with RCA Battery	
	Volts	Amps.				
PR-2	2.4	0.50	F	Blue	VS036	(Two)
PR-3	3.6	0.50	F	Green	VS036	(Three)
FR-6	2.5	0.30	F	Brown	VS036	(Two)
I3	3.8	0.30	C	Green	VS036	(Three)
I4	2.5	0.30	C	Blue	VS036	(Two)
I12	1.1	0.22	B	Pink	VS034	(One)
222	2.2	0.25	B	White	VS034	(Two)
233	2.3	0.27	C	Purple	VS035	(Two)

## RADIO PANEL AND MISCELLANEOUS TYPES

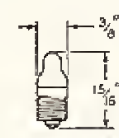
Type No.	Filament		Bulb Outline*	Bead Color	Service
	Volts	Amps.			
40	6 to 8	0.15	E	Brown	Radio Panel
41	2.5	0.50	E	White	Radio Panel
42	3.2	0.35	E	Green	Radio Panel
43	2.5	0.50	D	White	Radio Panel
44	6 to 8	0.25	D	Blue	Radio Panel
45	3.2	0.35	D	Green	Radio Panel
46	6 to 8	0.25	E	Blue	Radio Panel
47	6 to 8	0.15	D	Brown	Radio Panel
48	2.0	0.06	E	Pink	Radio Panel
49	2.0	0.06	D	Pink	Radio Panel
50	6 to 8	1-candle power	C	White	Radio Panel
51	6 to 8	1-candle power	G	White	Radio Panel
55	6 to 8	2-candle power	A	White	Test Instrument
291	2.9	0.17	E	White	Radio Panel
292	2.9	0.17	E	White	Pin-Game
1490	3.2	0.16	D	White	Machine
					Radio Panel

## \*DIMENSIONAL OUTLINES



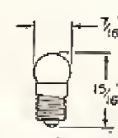
G-4 1/2 BULB  
MINIATURE  
BAYONET BASE

A



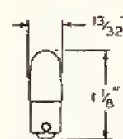
TL-3 BULB  
MINIATURE  
SCREW BASE

B



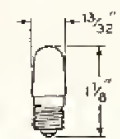
G-3 1/2 BULB  
MINIATURE  
SCREW BASE

C



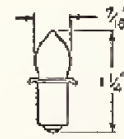
T-3 1/4 BULB  
MINIATURE  
BAYONET BASE

D



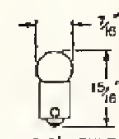
T-3 1/4 BULB  
MINIATURE  
SCREW BASE

E



G-3 1/2 BULB  
MINIATURE  
FLANGE BASE

F



G-3 1/2 BULB  
MINIATURE  
BAYONET BASE

G

## RCA TELEVISION COMPONENTS

- Deflecting Yokes
- Horizontal-Output and High-Voltage Transformers
- Blocking-Oscillator Transformers
- Vertical-Output Transformers
- Ion-Trap Magnets
- Linearity and Width Controls
- Focus Coils
- Power Transformers
- Conversion Kit

### DEFLECTING YOKES (For Use with Kinescopes)

Horizontal Coil Inductance mh	Vertical Coil DC Resistance ohms	Deflection Angle degrees	RCA Type
8.3	64.6	57	201D12
8.4	68	57	207D1
10.3	48.7	70	206D1
12	42	90	237D1†
12.5	68.8	57	205D1
13.3	48	70	209D1
13.3	48	70	211D2*
18.5	44	90	235D1*
18.5	48	70	222D1*
20	42	90	236D1*
28.5	3.3	70	214D1*

†Supplied with damping and neutralizing elements.

\*Supplied with color-coded leads, damping and neutralizing elements.

### DEFLECTING YOKES (For use with Camera Tubes)

Horizontal Coil Inductance mh	Typical Tube Type	RCA Type
0.9	6198, 6326	216D1
5.5	5820	210D1
5.5	2F21, 1699	201D77
8.0	5WP15, 5ZP16	212D1

### HORIZONTAL-OUTPUT AND HIGH-VOLTAGE TRANSFORMERS

DC Output (No Load) Kv	For Typical Yoke		RCA Type
	Deflection Angle degrees	Horizontal Coil Inductance mh	
8.75	57	8.3	211T3*
9	57	8.3	211T1*
14	70	13.3	224T1†
10 to 15	50-70	8 to 30	231T1*†
10 to 16	50-70	8 to 30	232T1†
18	70	13.3	230T1†
18	90	12	235T1†
33	57	8	211T2†

\*Isolated-secondary type

†Autotransformer type

\*Universal type

†For projection kinescopes

### HORIZONTAL-OUTPUT TRANSFORMER

For Camera Tube Types	RCA Type
6198, 6326	233T1

### HORIZONTAL LINEARITY CONTROLS

Inductance Range		RCA Type
Minimum mh	Maximum mh	
0.55	2.3	201R5
1.3	4.1	209R1
1.5	8.3	213R1
5.5	20	201R3

### WIDTH CONTROLS

Inductance Range		RCA Type
Minimum mh	Maximum mh	
0.05	0.245	201R1
0.08	0.24	201R2
0.17	0.61	201R4
0.47	1.7	206R1
0.5	1.7	208R1
1.65	9.2	211R1
1.75	10.5	214R1*
2.9	16	212R1
3.9	22	215R1

\*Has tapped secondary winding for AGC/AFC operation.

### ION-TRAP MAGNETS

Description	RCA Type
Double-pole, field-coil type. Dc current rating, 200 ma.	203D1
"Universal" Double/Single pole permanent-magnet type. Employs 3 ring-shaped magnets for use in double-pole applications. Can be used in single-pole applications by removing the small ring-shaped magnet. Field strength; large magnet, 55 gauss; small magnet, 15 gauss.	203D3



# **HORIZONTAL-OSCILLATOR AND SYNC-STABILIZER COILS**

Description	RCA Type
6-terminal phase discriminator for 630-type receivers.	208T8
3-terminal center-tapped oscillator coil for synchro-guide circuits.	203R1
4-terminal oscillator coil for synchro-guide circuits.	205R1

## **VERTICAL-OUTPUT TRANSFORMERS**

Turns Ratio Primary to Secondary	DC Resistance Primary ohms	RCA Type
3:1	700	234T1
10:1	521	204T9
10:1	590	204T2
11.4:1	1200	222T1
18:1	1600	226T1*

\*Auto-transformer.

## **VERTICAL-BLOCKING-OSCILLATOR TRANSFORMERS**

Turns Ratio Primary to Secondary	DC Resistance		RCA Type
	Primary ohms	Secondary ohms	
1:4.2	244	1310	208T2
1:4.2	244	1310	208T9
1:4.2	208	1060	209T1

## **HORIZONTAL-BLOCKING-OSCILLATOR TRANSFORMERS**

Turns Ratio Primary to Secondary	DC Resistance		RCA Type
	Primary ohms	Secondary ohms	
1:2	3.5	8.5	208T1
1:2	3.5	8.5	208T3

## **POWER TRANSFORMERS (117 VOLTS, 60 CPS)**

SECONDARY WINDINGS									
Primary Winding Current amps	Plate Winding		Filament No. 1		Filament No. 2		Filament No. 3		RCA Type
	Full-Load Voltage volts	Max. DC Current amps	Voltage volts	Current amps	Voltage volts	Current amps	Voltage volts	Current amps	
2.20	770/395	0.230	5	3	6.3	9.0	5.0	2.0	201T7
2.18	720/360	0.250	5	3	6.3	8.0	5.0	2.0	201T8*
2.48	730/365	0.260	5	6	6.3	8.85	5.0	2.0	201T9
2.48	730/365	0.260	5	6	6.3	8.85	6.3	1.2	201T10

\*Type 201T8 has an additional filament winding: 6.3 volt @ 0.6 ampere.

## **FOCUSING AND ALIGNMENT COILS**

DC Resistance ohms	DC Current ma	For Kinescopes or Camera Tubes		RCA Type
		Typical Types		
140	40	6198, 6326		218D1*
150	30	5820, 5826		204D75*
247	120	10BP4-A, 12LP4-A		202D1
385	60	6198		217D1
2000	75	5820, 5826		202D75

\*Alignment coils

## RCA SPEAKERS

- Alnico V magnets used for all PM types.
- Rugged mechanical construction with welded housing assembly.
- Finest quality moisture-resistant cone and voice-coil suspension assures high efficiency and dependability.
- Dust-sealed construction.
- RETMA mounting standards are followed.
- Electroplated pot and frame to provide ample resistance to rust and corrosion.

### PERMANENT-MAGNET TYPES

Size inches	Voice-Coil Impedance ohms	Alnico V Magnet Weight ounces	Power Rating watts	RCA Type
2 3/4	12.	1.0	0.250	222S1
2 x 3	12.	1.0	0.125	214S1
3	3.2	1.0	2	216S1
3	3.2	1.47	2	231S1
4	3.2	0.68	3	223S1
4	3.2	1.0	3	304S2
4	3.2	1.47	3	404S2
4 x 6	3.2	0.68	3	246S2
4 x 6	3.2	1.0	3	227S1
4 x 6	3.2	1.47	3	446S2
5	3.2	0.68	3	205S2
5	3.2	1.0	3	228S1
5	3.2	1.47	3	405S2
5 3/4	3.2	1.0	4	217S1
5 x 7	3.2	1.47	6	257S1
5 x 7	3.2	2.15	6	233S1
5 x 7	3.2	3.16	7	232S1
6 1/2	3.2	1.0	4	229S1
6 1/2	3.2	1.47	5	224S1
6 1/2	3.2	3.16	6	230S1
6 x 9	3.2	2.15	8	238S1
6 x 9	3.2	2.33	8	235S1
8	3.2	2.15	8	208S2
8	6-8	2.15	8	208S4

## RCA SPEAKERS

### PERMANENT-MAGNET TYPES (cont'd)

Size inches	Voice-Coil Impedance ohms	Alnico V Magnet Weight ounces	Power Rating watts	RCA Type
8	3.2	3.16	8	225S1
8	3.2	6.8	9	234S1
10	3.2	2.15	7	236S1
10	3.2	3.16	8	237S1
10	6-8	6.8	10	215S1
12	3.2	2.15	12	112S1
12	3.2	2.9	12	226S1
12	3.2	6.8	12	412S6
12	6-8	6.8	12	412S7

### FIELD-COIL TYPES

Size inches	Voice-Coil Impedance ohms	FIELD-COIL		Power Rating watts	RCA Type
		DC Resistance, ohms	Current ma		
4 x 6	3.2	450	65	3	746S1
5	3.2	450	65	3	705S1
6 x 9	3.2	6	1000	8	869S1
12	3.2	1000	70	12	712S2

### HIGH FIDELITY SPEAKER

Size inches	Frequency Response cps	Resonant Frequency cps	Voice-Coil Impedance ohms
12	40 to 16000	55 to 65	8
Alnico V Magnet Weight ounces		Power Rating watts	RCA Type
14		8	502S1



## RCA SELENIUM RECTIFIERS

RCA Selenium Rectifiers are designed for general replacement use in TV, radio receivers, and phonographs. Advanced design, select raw materials, and superior workmanship make RCA Selenium Rectifiers a dependable line for virtually all service jobs.

- Smaller size . . . for any given current, they are smaller than other types.
- Quicker installation . . . integral mounting stud.
- Wide-open design . . . insures maximum heat dissipation, cooler operation . . . no center "hot spots."
- Rigid construction . . . for rugged service.

Max. Output ma	Max. Input volts	RCA Type	Min. Series Resistance ohms
65	130	205G1	33
75	130	200G1	22
100	130	206G1	22
150	130	201G1	15
200	130	207G1	5
250	130	208G1	5
300	130	202G1	5
350	130	209G1	5
400	130	203G1	5
500	130	204G1	5
400*	130	210G1	5
500*	130	211G1	5

\*Special thin types for use where available space will not permit use of type 203G1 or 204G1.

## Junior VoltOhmyst\*, RCA WV-77A



The RCA Junior VoltOhmyst embodies all the features of its famous predecessor plus many new extras. Using the reliable VoltOhmyst bridge circuit, a sensitive 200-microampere meter movement, and 1% carbon-film multiplier resistors, the all-electronic WV-77A incorporates features found only in more expensive instruments. As a DC Voltmeter, it measures from 0.05 volt to 1200 volts in five ranges . . . even

in presence of ac. Less than 2- $\mu$ mf input capacitance with 11-megohm input makes the WV-77A invaluable for dc measurements in AVC, oscillator, and other high-impedance circuits. As an AC Voltmeter, the WV-77A measures from 100 millivolts to 1200 volts (rms) in five ranges. High ac-input impedance of vacuum-tube diode signal rectifier permits use in many varied rf applications. Frequency range flat within 1 db from 30 cps to 3 Mc, depending on source impedance and voltage range setting 50 kc to 250 Mc when used with WG-264 probe. As a wide-range Ohmmeter, the WV-77A measures resistance from 0.2 ohm to 1-billion ohms in five ranges. Danger of burnout of low-current devices such as battery-tube filaments is minimized by use of 1.5-volt battery. Meter is electronically protected against burnout on all functions.

### Plus These New Extras

- Zero-centering facilities for discriminator alignment.
- DC polarity reversing switch eliminates need for test-lead switching.
- Ohms probe always positive for quick check of electrolytic capacitors.
- Degenerative bridge circuit provides freedom from line voltage changes.
- Completely shielded metal case for stability in rf fields and extra protection.

\*Registered Trademark, U.S. Patent Office